

With the exception of the last two, all of these studies were conducted in the United States. The authors of the first study, which was published in 1982, reported that the prevalence of depression among the elderly was 15.6 percent. The authors of the second study, which was published in 1984, reported that the prevalence of depression among the elderly was 18.8 percent. The authors of the third study, which was published in 1986, reported that the prevalence of depression among the elderly was 19.2 percent. The authors of the fourth study, which was published in 1988, reported that the prevalence of depression among the elderly was 20.1 percent. The authors of the fifth study, which was published in 1990, reported that the prevalence of depression among the elderly was 21.3 percent. The authors of the sixth study, which was published in 1992, reported that the prevalence of depression among the elderly was 22.5 percent. The authors of the seventh study, which was published in 1994, reported that the prevalence of depression among the elderly was 23.7 percent. The authors of the eighth study, which was published in 1996, reported that the prevalence of depression among the elderly was 24.9 percent. The authors of the ninth study, which was published in 1998, reported that the prevalence of depression among the elderly was 26.1 percent. The authors of the tenth study, which was published in 2000, reported that the prevalence of depression among the elderly was 27.3 percent. The authors of the eleventh study, which was published in 2002, reported that the prevalence of depression among the elderly was 28.5 percent. The authors of the twelfth study, which was published in 2004, reported that the prevalence of depression among the elderly was 29.7 percent. The authors of the thirteenth study, which was published in 2006, reported that the prevalence of depression among the elderly was 30.9 percent. The authors of the fourteenth study, which was published in 2008, reported that the prevalence of depression among the elderly was 32.1 percent. The authors of the fifteenth study, which was published in 2010, reported that the prevalence of depression among the elderly was 33.3 percent. The authors of the sixteenth study, which was published in 2012, reported that the prevalence of depression among the elderly was 34.5 percent. The authors of the seventeenth study, which was published in 2014, reported that the prevalence of depression among the elderly was 35.7 percent. The authors of the eighteenth study, which was published in 2016, reported that the prevalence of depression among the elderly was 36.9 percent. The authors of the nineteenth study, which was published in 2018, reported that the prevalence of depression among the elderly was 38.1 percent. The authors of the twentieth study, which was published in 2020, reported that the prevalence of depression among the elderly was 39.3 percent.

CHARGING HANDLE ASSEMBLY - 8448517

BOLT CARRIER ASSEMBLY - 12011849

UPPER RECEIVER AND BARREL ASSEMBLY - 8448522

MAGAZINE ASSEMBLY, 30 ROUND - 8448670

SLING, ADJUSTABLE, SMALL ARMS - 12624561

LOWER RECEIVER AND BUTTSTOCK ASSEMBLY - 8448578

[illegible]

5

4

3

2

1

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SHAFT, MAGAZINE CATCH - 8448640

SEE PL-8448638

11A.004

MECHANICAL PROPERTIES

YS	9390011	M4
MIN		
YS	F9327230	M231
MAX		
EL2	F8448604	M16
RA		
BH	F8448578	M16A1
RH		

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES:

3 PLACE DECIMALS ±

2 PLACE DECIMALS ±

MATERIAL

DATE

27 APR 1970

PREP

B.R.L. G. J. M.

CHK

A.M. G. J. M.

ENGR

A.M. G. J. M.

SUBMITTED

F.P. G. J. M.

APPROVED

F.P. G. J. M.

CONTRACT NO.

27 APR 1970

DEPT OF THE ARMY

U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS 61201

CATCH, MAGAZINE

SIZE

B 19204

DRAWING NO.

8448638

SCALE

2/1

SHEET

1 OF 1

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

DOVER, NEW JERSEY 07801

CODE IDENT NO.

19200

REVISIONS

MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
			REDRAWN FROM COLT'S DRAWING C61604 REV A	27 APR 70	
	A		SEE ERR HQR 20778	6 OCT 72	RC
	B		NOR W9S2009 80-02-13	80-05-16	RC
	C		NOR G1S2018 91-07-08	91-10-11	RC
	D		NOR G2S3059 920716 (ECP G2S3060 920630)	92-08-11	AJL

NOTES:

1. ASSEMBLE 8448639 AND 8448640 USING 15±5 INCH LB OF TORQUE BEFORE SWAGING.

2. MIL-W-13855 APPLIES. (A)

SWAGE TO FORM HEAD AND LOCK ASSEMBLY. SWAGED HEAD MUST BE SMOOTH AND SYMMETRICAL

PLATE, MAGAZINE CATCH - 8448639

.030 MAX

-A-

October 15, 2004 11:16 AM

ARMAMENT RESEARCH & DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PARTS LIST
DOCUMENT/PART NUMBER PL-9349119
BUTTSTOCK ASSEMBLY, STOWAGE D 9349119
CHANGE CONTROL NUMBER W253258

CURRENT FSCM NO. 19200 - ORIGINAL FSCM NO. 19200

AUTHENTICATION- *R. Hall*

END QTY UNIT FSCM PART OR
NO. REQ MEAS NO. IDENTIFYING NO

DRAWING/DOCUMENT SIZE NUMBER
NOYENC[ATURE OR DOCUMENT TITLE

1 19204 8448652
1 19204 8448653
1 19204 8448655
1 9349120
1 9349121
1 9349130
1 9349130

C 8448652 SWIVEL
C 8448653 HINGE
B 8448655 PIN
D 9349120 SCREW, SWIVEL
J 9349121 BUTTSTOCK
J 9349130 BUTT PLATE ASSEMBLY
C 9349130 DOOR ASSEMBLY, THUMB LATCH

TOTAL NUMBER OF SHEETS 1

REV. DATE 04 SEP 84
REVISION LETTER B
SHEET 1
ORIG. DATE 14 JUN 82

SUP
LST

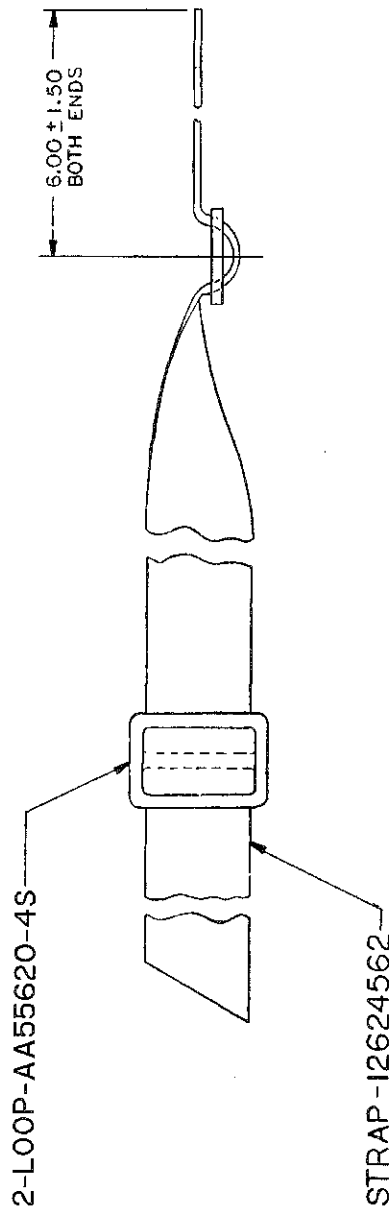
X
X

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SD - SELECTION OPTIONAL

□

NOTES:-
1-MIL-W-13955 APPLIES.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE ERR WSSO107	86-01-24	98
A	NORGLS9451/910429	910605	98
B	NORL7S2000 970214	970306	JB



SEE SEPARATE PARTS LIST 12624561		PART NO. 12624561	
F8448500 RIFLE ASSEMBLY M16		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801-5001	
F9349000 RIFLE, 5.56MM, M16A2	F7265698 RIFLE, 30MM LAUNCHER	ORIGINAL DATE OF DRAWING 86-01-24	
D7265648 SMG, M3A1	B8426167 GRENADE	DRAFTSMAN SAS	
C11686409 SHOTGUN, 12GA, RIOT TYPE	M79	CHECKER ENGR	
F7265694 CARBINE, CAL. 30	F8448500 RIFLE	ENGR	
F7265696 M16A2	5.56MM	ENGR	
F7267000 RIFLE, 7.62MM M14	M16A1	ENGR	
NEXT ASSY	USED ON	SIZE C	
APPLICATION		FSCM NO. 19200	
APPLICATION		UNIT WT. 12624561	
APPLICATION		SCALE	
APPLICATION		SHEET	

[illegible]

1-STEEL CMPSN 4130 OR 4140 ASTM

2.-FINISH 125/ EXCEPT AS NOTED.

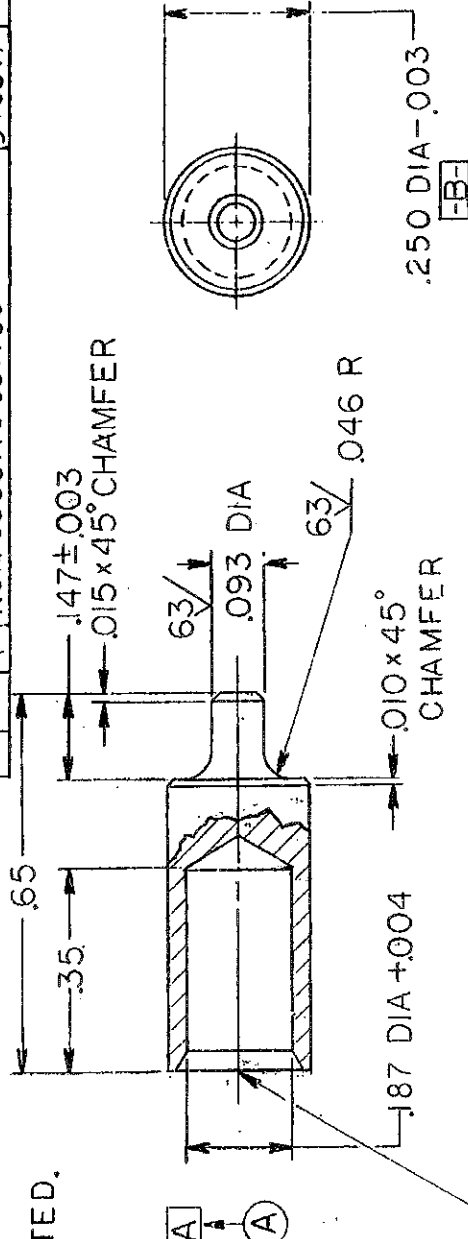
3.-BREAK ALL SHARP EDGES
 .010 MAX.

4.-ALL DIAMETERS $\oplus$ B.006 D A

5-MIL-W-13855 APPLIES.

**DISTRIBUTION STATEMENT E FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASOHC-AE OR HIGHER DOD AUTHORITY; 92-06-22.**

REVISIONS					
MF	ZONE	UTR	DESCRIPTION	DATE	APPROVAL
			REDRAWN FROM COLT'S DRAWING	27 APR 70	
			C61582 REV B		
		A	(1)SEE ERR HQR 20778	6 OCT 72	RES
		B	NOR W9S2009 80-02-13	80-05-16	RES
		C	NOR W6S0085 / 86-07-24	89-03-14	77
		D	NOR G1S2018 91-07-08	91-10-11	RES
		E	NOR G2S3059 920716 (ECP G2S3060 920630)	92-08-11	AJL SR
		F	NOR G3S3116 931130	940317	77



CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

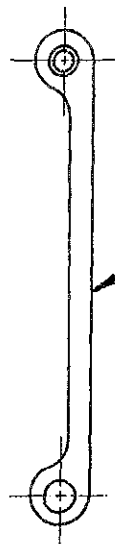
MECHANICAL PROPERTIES						UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DATE 27 APR 1970		U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
YS							TOLERANCES: ANGLES = 2 3 PLACE DECIMALS ±0.05 2 PLACE DECIMALS ±0.1	PREP	E.C.K.	RETAINER, BUFFER	
MIN								CHK	W.L.H.		
YS	9390011				M4		MATERIAL	ENGR	A. Hunt		
MAX								SUBMITTED	J.P. O'Flaherty		
EL2	C8448605				M16		SEE NOTE 1				
RA	C8448579				M16A1						
B-H											
RH	15N 72.5-76						FINAL PROTECTIVE FINISH	APPROVED	K.L. Henry		
							531.2 OF MIL-STD-171	SCALE 5/1		SHEET OF	
								SIZE B		CODE IDENT NO. 19204	
								DRAWING NO.		8448582	

AMSWE Form 403B, 29 Jul 69

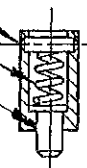
[illegible]

I. MIL-W-13855 APPLIES.

Technical drawing of a rectangular plate. The plate has a circular hole on the left side and a semi-circular protrusion on the right side. The drawing includes dimension lines and a center line for the hole.



GUARD, TRIGGER- 8448588



PLUNGER, TRIGGER GUARD— 8448589
SPRING, TRIGGER GUARD— 8448590
PIN, SPRING—MSI6562-96

CURRENT

CODE IDENT NO.

19200

SEE PL-8448587

[illegible]

APPLICATION

17C

13345

10

10

5 4 3 2 1

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REVISIONS			
MF	ZONE	DESCRIPTION	DATE
M	B	REPLACES REV A W/ CHANGE SEE ERR HQR 20778	6 OCT 72
		NOR W250011 / 82-04-13	
		CECP W250034 / 82-07-15	
		CECP W353120 / 83-07-07	83-11-04
D		NORG152018 91-07-08	91-10-11

SPRING, HELICAL, COMPRESSION

- NOTES:
- 1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
 - WIRE DIAMETER 0220 ±.0005
 - COIL DIAMETER (O.D) 180 ±.003
 - FREE LENGTH 940 REF
 - TOTAL COILS 14 REF
 - DIRECTION OF HELIX OPTIONAL
 - LOAD AT COMPRESSED LENGTH OF .490 30 LB ±.3 LB
 - LOAD AT COMPRESSED LENGTH OF
 - SPRING RATE
 - SOLID LENGTH 335 MAX
 - TYPE OF ENDS CLOSED
 - MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572
 - 2. PRECIPITATION HEAT TREAT AFTER FORMING TO COND TN CH900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
 - 3. MIL-W-13855 APPLIES.
 - 4. BREAK SHARP EDGES .003 ± .012.

CURRENT DESIGN ACTIVITY
FSCM NO. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		PART NO. 8448583	
YS MIN		TOLERANCES:	DATE 27 APR 70	DEPT OF THE ARMY	U.S. ARMY WEAPONS COMMAND		
YS MAX		3 PLACE DECIMALS ±.005	PREP P. V. V. (P. V. V.)	ROCK ISLAND, ILLINOIS, 61201			
EL 2		2 PLACE DECIMALS ±.01	CHK P. V. V. (P. V. V.)	SPRING, BUFFER RETAINER			
RA		MATERIAL	ENGR P. V. V. (P. V. V.)	B 19204		DRAWING NO. 8448583	
BH		SEE NOTE 1	SUBMITTED	B 19204		8448583	
RH	15N 84.5 MIN	FINAL PROTECTIVE FINISH	APPROVED	SCALE		SHEET 1 OF 1	
		5.41 OF MIL-STD-171	L. J. Henry				
		APPLICATION					
		NEXT ASSY					
		USED ON					

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NOTES:

1. WIRE, STEEL, CARBON, SPRING, MUSIC, ASTM-A228.
2. STRESS RELIEVE: HOLD AT 475°F ± 25° FOR 30 MINUTES. AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003 ± .012.

WIRE DIAMETER
COIL DIAMETER (OD)
FREE LENGTH AFTER SETTING
TOTAL COILS
DIRECTION OF HELIX
LOAD AT COMPRESSED LENGTH OF
LOAD AT COMPRESSED LENGTH OF
SPRING RATE
SOLID LENGTH
TYPE OF ENDS

0400 ± .0005
41
1.13 REF
9 REF
OPTIONAL
4.0 LB ± .4 LB
405 MAX
OPEN
MANUFACTURE IN ACCORDANCE WITH TYPE 1, GRADE B, MIL-S-13572.
EXCEPT PARAGRAPH 3.4.3 SHALL NOT APPLY.

SPRING, HELICAL, COMPRESSION

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
		C	REPLACES REV B W/CHANGE SEE ERR HQR 20778
		D	NORW2S0045 82-07-29
		E	NORW2S0011 / 82-04-13 (ECPW3S3120 / 83-07-07)
		F	NOR G8S2005 / 880310
		G	NOR G1S2018 / 910708

DATE	APPROVED
6 OCT 72	RB
83-02-03	RB
83-11-04	RB
880927	OKT 72
911011	RR

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS		TOLERANCES:		DATE	27 APR 70	U.S. ARMY WEAPONS COMMAND	
MIN		ANGLES ±		PREP	P. J. J. J.	ROCK ISLAND, ILLINOIS, 61201	
MAX		3 PLACE DECIMALS ± .005		CHK	P. J. J. J.		
EL 2		2 PLACE DECIMALS ± .01		ENGR	P. J. J. J.		
RA		MATERIAL		SUBMITTED	P. J. J. J.		
BH		SEE NOTE 1		APPROVED	P. J. J. J.		
RH		FINAL PROTECTIVE FINISH			P. J. J. J.		
9390029		M4					
D8448523		M16 A1					
NEXT ASSY		USED ON					
APPLICATION							

PART NO. 8448540

SPRING, PLUNGER

8448540

SHEET 1 OF 1

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SPRING, HELICAL, COMPRESSION

WIRE DIAMETER:

0290 ± 0005

NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631,
(17-7PH) COLD DRAWN, ASTM A313.

COIL DIAMETER (O.D.)

 200 ± 862

FREE LENGTH

115 REF

TOTAL COILS _____

LE
W
O
O

DIRECTION OF HELIX.

OPTIONAL

LOAD AT COMPRESSED LENGTH OF 4.70

5.64 LB $\pm$.56 LB

LOAD AT COMPRESSED LENGTH OF

SPRING RATE —

01234567891011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697071727374757677787980818283848586878889909192939495969798991001011021031041051061071081091101111121131141151161171181191201211221231241251261271281291301311321331341351361371381391401411421431441451461471481491501511521531541551561571581591601611621631641651661671681691701711721731741751761771781791801811821831841851861871881891901911921931941951961971981992002012022032042052062072082092102112122132142152162172182192202212222232242252262272282292302312322332342352362372382392402412422432442452462472482492502512522532542552562572582592602612622632642652662672682692702712722732742752762772782792802812822832842852862872882892902912922932942952962972982993003013023033043053063073083093103113123133143153163173183193203213223233243253263273283293303313323333343353363373383393403413423433443453463473483493503513523533543553563573583593603613623633643653663673683693703713723733743753763773783793803813823833843853863873883893903913923933943953963973983994004014024034044054064074084094104114124134144154164174184194204214224234244254264274284294304314324334344354364374384394404414424434444454464474484494504514524534544554564574584594604614624634644654664674684694704714724734744754764774784794804814824834844854864874884894904914924934944954964974984995005015025035045055065075085095105115125135145155165175185195205215225235245255265275285295305315325335345355365375385395405415425435445455465475485495505515525535545555565575585595605615625635645655665675685695705715725735745755765775785795805815825835845855865875885895905915925935945955965975985996006016026036046056066076086096106116126136146156166176186196206216226236246256266276286296306316326336346356366376386396406416426436446456466476486496506516526536546556566576586596606616626636646656666676686696706716726736746756766776786796806816826836846856866876886896906916926936946956966976986997007017027037047057067077087097107117127137147157167177187197207217227237247257267277287297307317327337347357367377387397407417427437447457467477487497507517527537547557567577587597607617627637647657667677687697707717727737747757767777787797807817827837847857867877887897907917927937947957967977987998008018028038048058068078088098108118128138148158168178188198208218228238248258268278288298308318328338348358368378388398408418428438448458468478488498508518528538548558568578588598608618628638648658668678688698708718728738748758768778788798808818828838848858868878888898908918928938948958968978988999009019029039049059069079089099109119129139149159169179189199209219229239249259269279289299309319329339349359369379389399409419429439449459469479489499509519529539549559569579589599609619629639649659669679689699709719729739749759769779789799809819829839849859869879889899909919929939949959969979989991000100110021003100410051006100710081009101010111012101310141015101610171018101910201021102210231024102510261027102810291030103110321033103410351036103710381039104010411042104310441045104610471048104910501051105210531054105510561057105810591060106110621063106410651066106710681069107010711072107310741075107610771078107910801081108210831084108510861087108810891090109110921093109410951096109710981099110011011102110311041105110611071108110911101111111211131114111511161117111811191120112111221123112411251126112711281129113011311132113311341135113611371138113911401141114211431144114511461147114811491150115111521153115411551156115711581159116011611162116311641165116611671168116911701171117211731174117511761177117811791180118111821183118411851186118711881189119011911192119311941195119611971198119912001201120212031204120512061207120812091210121112121213121412151216121712181219122012211222122312241225122612271228122912301231123212331234123512361237123812391240124112421243124412451246124712481249125012511252125312541255125612571258125912601261126212631264126512661267126812691270127112721273127412751276127712781279128012811282128312841285128612871288128912901291129212931294129512961297129812991300

PRECIPITATION HEAT TREAT

270 MAX

5. PRESCRIPTION HEAT TREAT

DESIGN

AFTER FORMING TO CONDIN.

219

CH900. HOLD AT 900°F.

FOR 1 HOUR. AIR COOL

3. MIL-W-13855 APPLIES

4 BBKKE SHARP EDGES .003+012

10

MECHANICAL PROPERTIES						UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY		
YS							ANGLES ±	DATE	PREP	U.S. ARMY WEAPONS COMMAND		
MIN							2 PLACE DECIMALS ±	27 APR 70		ROCK ISLAND, ILLINOIS 61901		
YS							3 PLACE DECIMALS ±			SPRING, MAGAZINE CATCH		
MAX							MATERIAL	CHK				
EL2								ENGR				
RA								SUBMITTED				
BH												
BH										SIZE	CODE IDENT NO.	DRAWING NO.
										B	19204	8448637
RH	15N 84.5 MIN									SCALE		SHEET 1 OF 1
							FINAL PROTECTIVE FINISH	APPROVED				
							5.41 OF MIL-STD-H71	<i>R. J. Harvey</i>				

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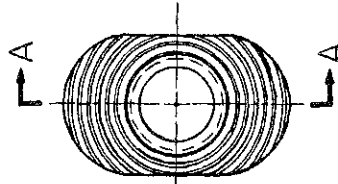
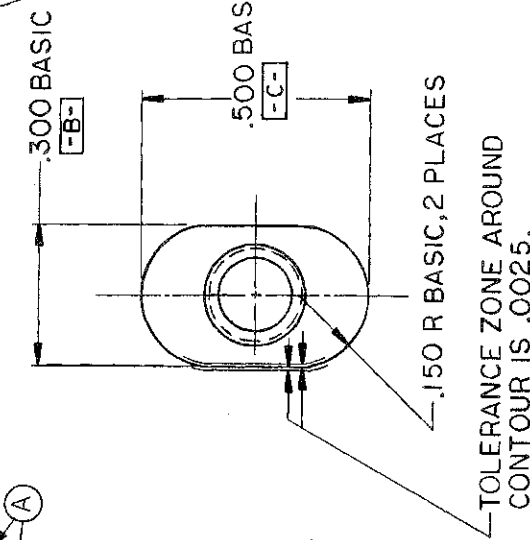
NOTES:

1. FINISH 125/.
2. ALL DIMENSIONS APPLY BEFORE FINISH.
3. FINISH: MIL-A-8625, TYPE 3, CLASS 2, FILM THICKNESS .0010 ±.0002. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
4. MIL-W-13855 APPLIES.

CSK BOTH ENDS $90^{\circ} \pm 4^{\circ}$ TO
.215 DIA $+.015_{-}$

THREAD DIMENSIONS AFTER FINISH
TO CONFORM TO 10-32 UNF-2B
MINOR DIA .156/.164
PITCH DIA .1697/.1736
MAJOR DIA .190 MIN.

⊕	B.010 TOTAL
⊕	C.010 TOTAL



CURRENT

19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND
GOVERNMENT OF NEW JERSEY 07901

DEPT OF THE ARMY
U.S. ARMY WEAPONS COM
BROCK ISLAND, ILLINOIS,

BUTTON,
 MAGAZINE RELEASE

WING NO. 8448636

SCALE 5/1

SHEET 1 OF

AMSWE Form 403C, 29 Jul 69

$$\frac{CDI}{\text{---}}$$

QUALITY ASSURANCE PROVISIONS (QAP) - (CONTINUATION SHEET) (DARCOM-R 702-10)

3. NOTICE: RESTRICTED AS TO USE AND DISCLOSURE (see page 1)

PART III. INSPECTION REQUIREMENTS

TABLE I. CLASSIFICATION OF QUALITY CONFORMANCE CHARACTERISTICS

100% examination shall be performed for critical characteristics unless otherwise stated. Examination for major and minor characteristics shall be performed in accordance with the classification of quality conformance characteristics contained herein. Inspection Level II shall be used and individual AQL's applied in accordance with MIL-STD-105.

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>AQL or 100%</u>	<u>INSPECTION METHOD</u>
<u>CRITICAL:</u>	None defined		
<u>MAJOR:</u>			
101.	.590 Length	0.65	SMTE
102.	.460 Width	0.65	SMTE
<u>MINOR:</u>			
201.	Hardness	1.5	SMTE
202.	.116 Height .279R (ref)	1.5	SMTE
203.	.010 Maximum mismatch .125R (4 places)	1.5	Visual
204.	AA63 Surface roughness	1.5	ANSI-B36.1
205.	Defective protective coating	1.5	Visual
206.	Workmanship (See MIL-W-63150)	2.5	Visual

PART IV. CERTIFICATION PROVISIONS

The certification provisions of MIL-W-63150 for Certificate of conformance shall apply. Certification of Conformance are required for the following:

<u>NUMBER</u>	<u>CHARACTERISTIC</u>	<u>TEST DATA TO COMPLY WITH</u>
301	Material	Dwg. 8448536, Note 1
302	Phosphate Coating	DOD-P-16232
303.	Supplementary Oil	MIL-L-3150 & FED-STD-791

PART V. TEST METHODS AND PROCEDURES

None Required

					<u>ORIG CODE IDENT 19204</u>	<u>CAGE CODE 19200</u>
16.	<u>REVISION SYMBOL AND DATE</u>	<u>E841126</u>	<u>F880218</u>	<u>G920910</u>		10. QAP NO. 8448536
						14. PAGE NO. 3

QUALITY ASSURANCE PROVISIONS (QAP) - (CONTINUATION SHEET)

(DARCOM-R 702-10)

3. NOTICE: RESTRICTED AS TO USE AND DISCLOSURE (see page 1)

SPECIFICATIONS

MIL-L-3150	Lubricating Oil, Preservative, Medium
DOD-P-16232	Phosphate Coatings, Heavy, Manganese or Zinc Base (For Ferrous Metals)
MIL-W-63150	Weapons and Support Material, Standard Quality Assurance Provisions
ANSI-B46.1	Surface Texture (Surface Roughness, Waviness & Lay)

PART II. QUALITY PROVISIONS

1. Responsibility for Inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

2. First Article Inspection.

2.1 Submission. Unless otherwise specified in the contract, a first article sample consisting of five (5) QAP items shall be submitted for inspection, testing and approval in accordance with the terms of the contract. As determined by the Government, the sample items may be subjected to any or all of the examinations and tests specified in this QAP and be inspected for compliance with any of the requirements.

2.2 Rejection. If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

3. Quality Conformance Inspection.

3.1 Quality Conformance Inspection shall consist of inspection of all characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Provisions" of this QAP.

3.1.1 All other quality characteristics not specifically listed herein are subject to inspection under the contractor's quality or inspection system.

				ORIG CODE IDENT 19204		CAGE CODE 19200	
16. REVISION SYMBOL AND DATE	E841126	G920910				10. QAP NO. 8448536	
						14. PAGE NO. 2	

QUALITY ASSURANCE PROVISIONS (QAP) (DARCOM-R 702-10)

1. COMMAND AGENCY:

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, N.J. 07806-5000

2. THESE QAP'S FORM PART OF DRAWING/SPECIFICATION

8448536

AS SPECIFIED IN THE CONTRACT.

INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS.

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Unless otherwise specified herein or in the contract, the provisions of MIL-W-63150 shall apply and are made part of this detail QAP.

PART I. LIST OF APPLICABLE DOCUMENTS**DRAWINGS**

B8448536

Spring, Rear Sight

STANDARDS

MIL-STD-105

Sampling Procedures and Tables for Inspection by Attributes

FED-STD-791

Lubricants, Liquid Fuels & Related Products, Methods of Testing

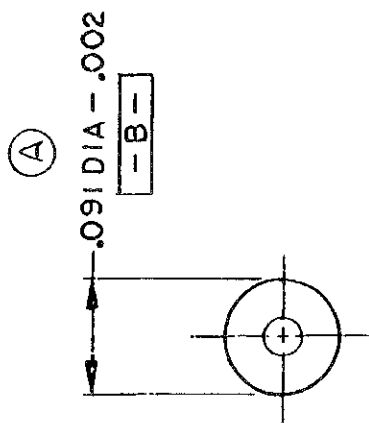
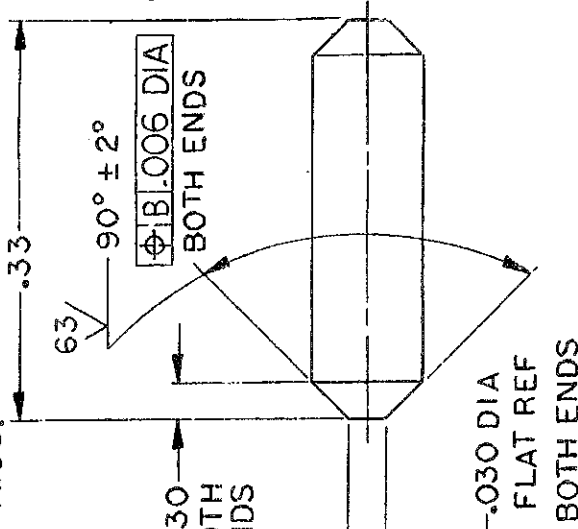
DISTRIBUTION STATEMENT F. Further distribution only as directed by ASQNC-AR or higher DoD authority 92-06-22.

REVISIONS

4. RELEASE NUMBER	50625	W2S0015	G7S3140	W6S0120						
5. DATE	750430	841126	880218	920910						
4. RELEASE NUMBER										
5. DATE										
REVISION STATUS OF SHEETS	6. REVISION	G	G	G						
	7. SHEET	1	2	3						
	6. REVISION									
	7. SHEET									
8. QAP FOR:	Spring, Rear Sight - used on M16/M16A1 Rifle								ORIG CODE IDENT 19204	CAGE CODE 19200
9. SUBMITTED BY	<i>FWZ Cull</i>								10. QAP NO.: 8448536	
11. DATE: 700528	12. APPROVED: <i>R. Lee</i>			13. RELEASE NO. 05105		14. PAGE NO.: 1		15. NO. OF PAGES: 3		

DARCOM FORM 2484-R-E

DC



PARTS LIST
DOCUMENT/PART NUMBER PL-8448638
CATCH, MAGAZINE B 8448638
CHANGE CONTROL NUMBER 76V0018

ROCK ISLAND ARSENAL
ROCK ISLAND IL
AUTHENTICATION- CODE ID 19204

REV. DATE 16 APR 76
REVISION LETTER A
SHEET 1
ORIG. DATE 27 APR 70

FND QTY	UNIT CODE	PART OR IDENTIFYING NO.	DRAWING/DOCUMENT SIZE	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
1	8448639	C 8448639		PLATE, MAGAZINE CATCH	
1	8448640	C 8448640		SHAFT, MAGAZINE CATCH	
TOTAL NUMBER OF SHEETS				1	

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

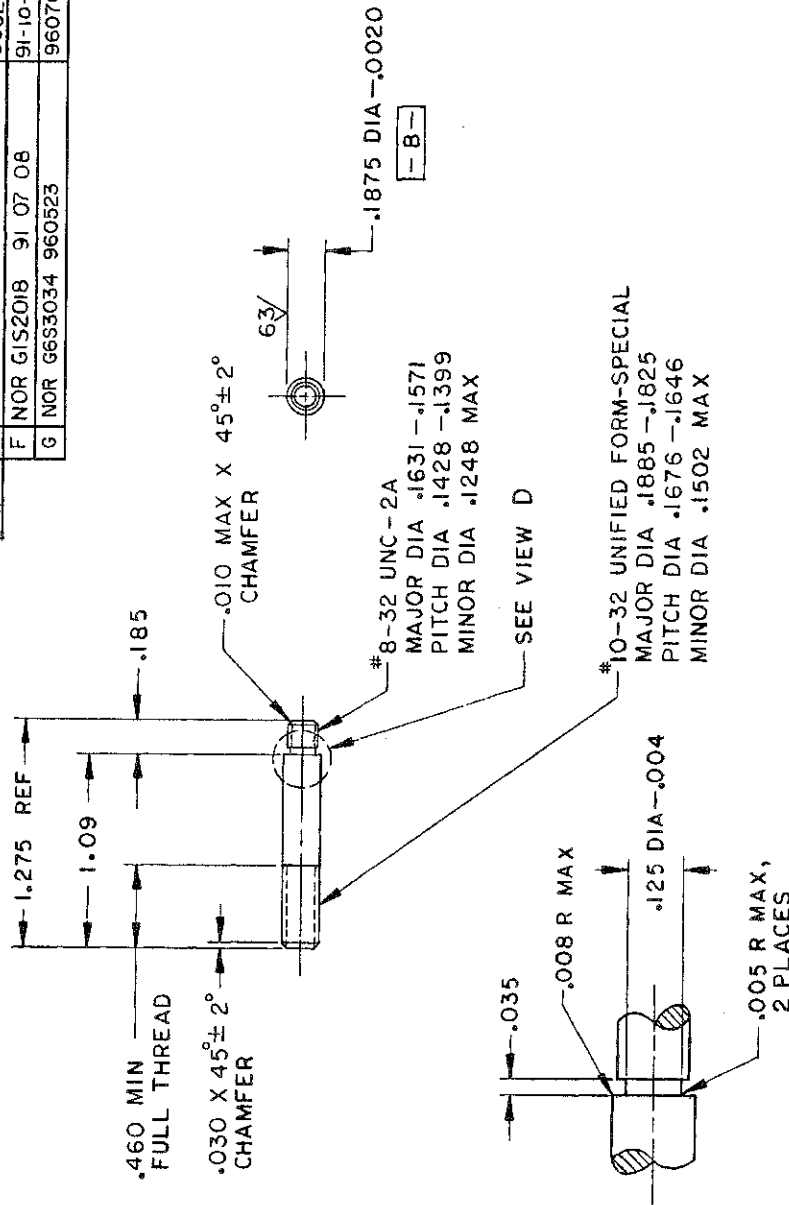
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NOTES:

1. MATERIAL: STEEL, CMPSN 1018, 1018, OR 1118.
ALTERNATE MATERIAL: COLD DRAWN SHAFING,
CMPSN 12L14 PER ASTM-A108. ALLOY STEEL BAR,
AISI 8620 PER ASTM-A322.
2. FINISH ¹²⁵ EXCEPT AS NOTED.
3. ALL DIAMETERS $\varnothing$ B1005 DIA. (B)
4. MIL-W-13855 APPLIES. (B)

REVISIONS			DATE	APPROVED
MF	ZONE	LTR	DESCRIPTION	
			REDRAWN FROM COLT'S DRAWING	
			C61606 REVISION B	27 APR 70
A			10 SEE EOHRO 02197-3	15 JUL 70
B			3 SEE ERR HQR 20778	6 OCT 72
C			NOR W9S2009 80-02-13	80-05-18
D			NOR W2S3258/83-06-24	84-09-04
E			NOR G7S3041/870406	880222
F			NOR GIS2018 91 07 08	91-10-11
G			NOR G6S3034 960523	960703



VIEW D
SCALE 5/1

CURRENT DESIGN ACTIVITY FSCM NO. 19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		ANGLES DECIMALS: .005		2 PLACE DECIMALS: .01		MATERIAL		SEE NOTE 1		FINAL PROTECTIVE FINISH	
YS	MIN														
YS	MAX														
EL2															
RA															
BH															
RH															
APPLICATION		NEXT ASSY		USED ON		M4		M231		M16		M16A2			

CONTRACT NO	DATE 27 APR 1970	PREPARED RGH G.S. DA	ENGINEER RGH G.S. DA	SUBMITTED RGH G.S. DA	APPROVED R.S. Henry
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201					
SHAFT, MAGAZINE CATCH					
SIZE	CODE IDENT NO	DRAWING NO			
C	19204	8448640			
SCALE	2/1	SHEET	1	OF	1

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NOTES:

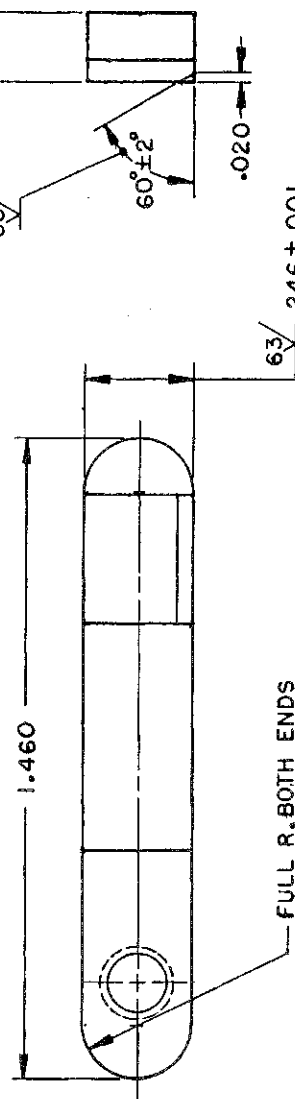
1. FINISH $\sqrt[125]{}$ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 $\pm$.005 EXCEPT AS NOTED.
3. CARBURIZE .010 TO .015 TOTAL CASE DEPTH. $.220 \pm .003$
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.
6. MATERIAL: STEEL, CMPSN 1018, PER ASTM-A108. ALTERNATE MATERIAL: STEEL, AISI 8620 PER ASTM-A322 OR ASTM-A505.

90° C SINK TO .180 DIA $\pm$.005
ONE SIDE ONLY
TAP THRU 8-32 UNC-2B THREAD
MINOR DIA .130 $\pm$.139
PITCH DIA .1437 $\pm$.1475
MAJOR DIA .1640 MIN
 $\equiv$ A $\pm$.005 TOTAL

(A)

SHARP CORNER

.050, 2 PLACES



FULL R, BOTH ENDS

REV	DATE	DESCRIPTION	APPROVED
1	27 APR 70	REDRAWN FROM COLT'S DRAWING	
2	60CT72	CS1605 REVISION B	
3	80-05-16	A (4) SEE ERF HQR 20778	
4	91-10-11	B NOR W952009 80-02-13	
5	931217	C NOR G1S2018 91 07 08	
6	960703	D NOR G3S3100 931025	
7		E NOR G6S3034 960523	

CURRENT DESIGN ACTIVITY CASE CODE 18200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
FORT MONTELEONE, NEW JERSEY 07066-5000

DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		DATE 27 APR 1970	
PLATE, MAGAZINE CATCH		CONTRACT NO.	
SIZE C	CODE IDENT NO. 19204	PREPARED RGD	DATE 27 APR 1970
SCALE 5/1	DRAWING NO. 8448639	CHECKED [Signature]	ENGINEER [Signature]
		SUBMITTED [Signature]	APPROVED [Signature]
		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES ANGLES $\pm$.005 3 PLACE DECIMALS $\pm$.005 2 PLACE DECIMALS $\pm$.005	
		MATERIAL	
		SEE NOTE 6	
		FINAL PROTECTIVE FINISH	
		APPLICATION	
		NEXT ASSY USED ON	
		APPLICATION	

NOTES: INSTRUCTIONS AS TO HOW AND EXCLUSIONS.
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NOTES: -

1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.

2 - MATERIAL: -

A. SCREW - STEEL WIRE OR ROD, CMPSN 1010 THRU 1018 OR 1018, SPEC. ASTM A108.

B. ELEMENT - MUST MEET THE PERFORMANCE REQUIREMENTS OF MIL-F-18240 CONFIGURATION A OR B PATCH. LOCATION OF ELEMENT SHALL BE WITHIN THE DIMENSIONAL LIMITATIONS OF STANDARD MS15981.

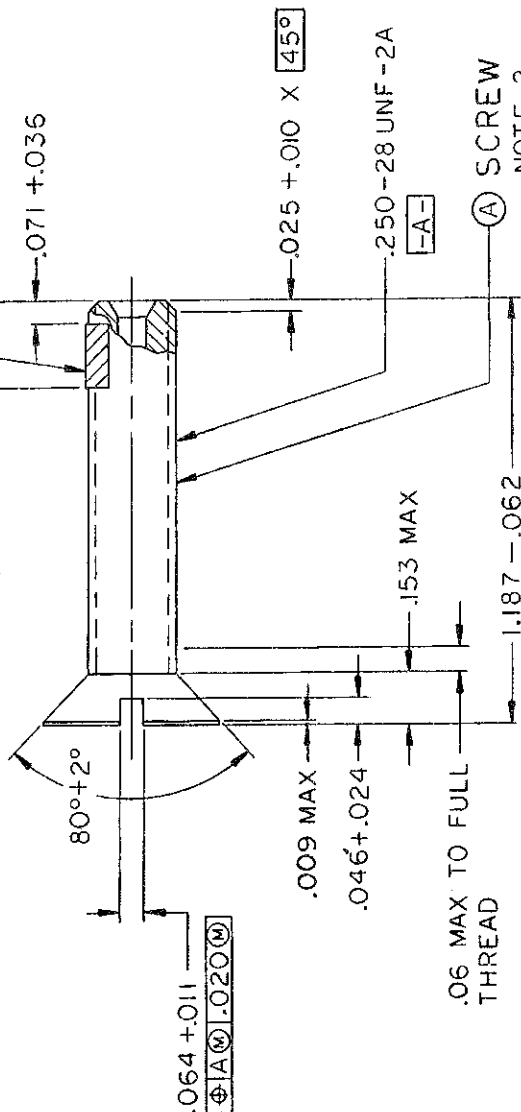
3 - COVERAGE OF ELEMENT TO BE 90° MIN OF THREADED DIA. RANDOM RADIAL LOCATION OF ELEMENT.

4 - BREAK SHARP EDGES .005 +.010.

5 - FILLET RADIUS .015 -.012.

6 - FINISH 125/ ALL OVER.

7 - PROTECTIVE FINISH: -5.3.1.2 OF MIL-STD-171.

B ELEMENT
NOTE 2.249 MIN
.071 +.036A SCREW
NOTE 2

PART NO. 9349128

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

SCREW, BUTT CAP

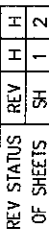
SIZE FSCM NO. 9349128
C 19200

SCALE 4/1 UNIT WT.

SHEET 1 OF 1

3 PLACE DECIMAL: $\pm .005$
2 PLACE DECIMAL: $\pm .01$

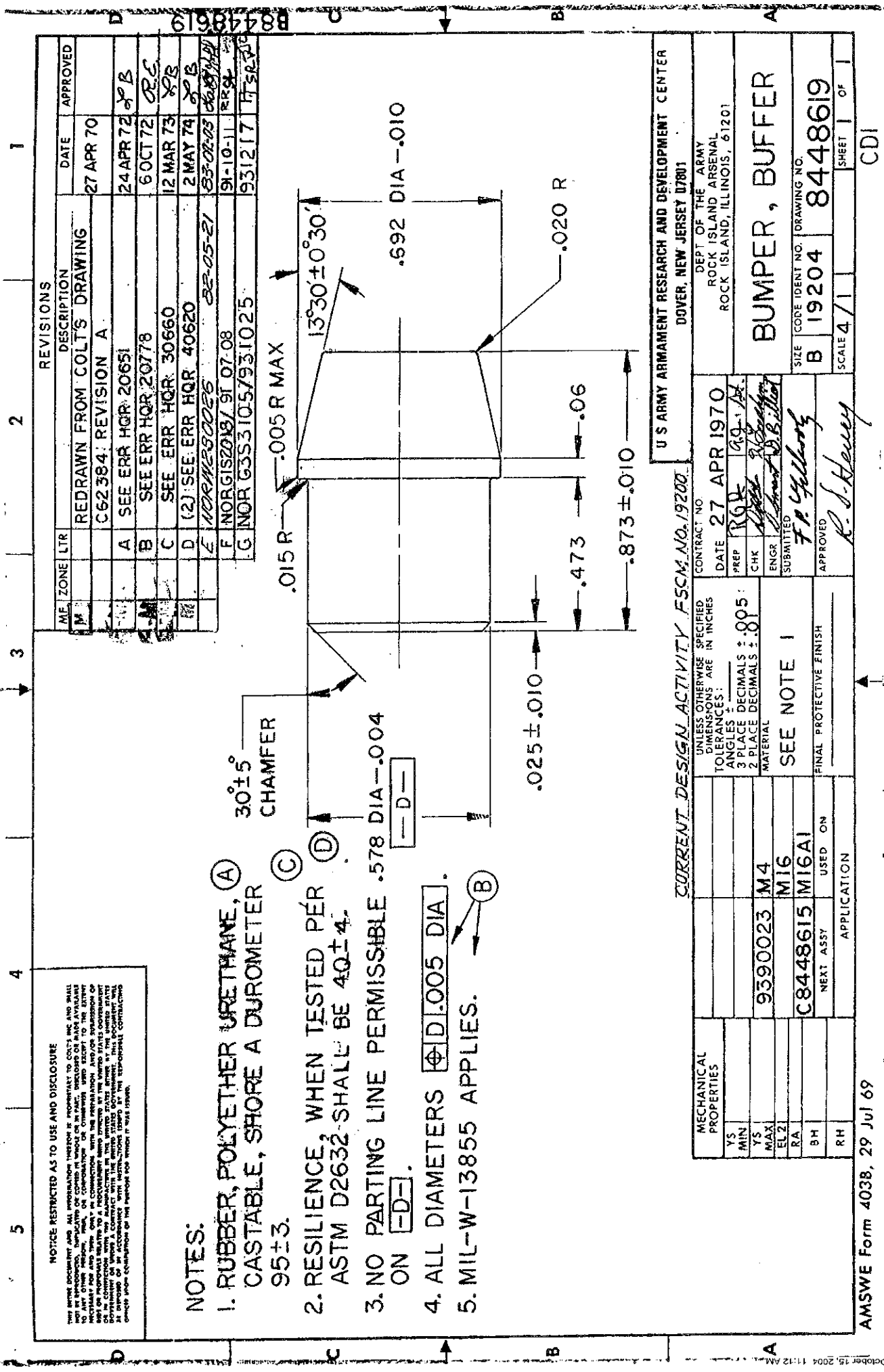
1



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RECTED BY COMMANDER ARDEC ATTN: SMCAR-ESWROCK ISLAND
ASONG-AR THIS DETERMINATION WAS MADE ON 01-10-75

SMCAR FORM 67, 1 JUN 86(TEMP) REPLACES SMCAR FORM 67, 1 FEB 85.
WHICH MAY BE USED UNTIL EXHAUSTED



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NOTES:

1. RUBBER, POLYETHER URETHANE, (A) CASTABLE, SHORE A DUROMETER 95±3.
2. RESILIENCE, WHEN TESTED PER (D) ASTM D2632 SHALL BE 40±4.
3. NO PARTING LINE PERMISSIBLE .578 DIA ± .004 ON (D).
4. ALL DIAMETERS (D) .005 DIA.
5. MIL-W-13855 APPLIES.

REVISIONS			
ME. ZONE	LTR	DESCRIPTION	DATE
		REDRAWN FROM COLT'S DRAWING	27 APR 70
		C62384: REVISION A	
A		SEE ERR HQR 20651	24 APR 72
B		SEE ERR HQR 20778	6 OCT 72
C		SEE ERR HQR 30660	12 MAR 73
D		(2) SEE ERR HQR 40620	2 MAY 74
E		NORMIS 50025	83-05-21
F		NORGIS 2013/91 07 08	91-10-11
G		NOR 63531057931025	931217

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801		DEPT OF THE ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILLINOIS, 61201	
CONTRACT NO. 19204		DRAWING NO. 8448619	
DATE 27 APR 1970		PREP RGP	
CHK		ENGR	
SUBMITTED		APPROVED	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES: ANGLES ± 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .01	
MATERIAL		SEE NOTE 1	
M4		M16	
M16		M16A1	
NEXT ASSY		USED ON	
APPLICATION		FINAL PROTECTIVE FINISH	

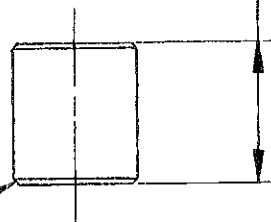
5 4 3 2 1

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- NOTES:
- STEEL, CMPSN 1013, 1015, 1213 OR 1215, ASTM A108
 - FINISH 125/ EXCEPT AS NOTED.
 - MIL-W-13855 APPLIES.

.015 X 45° ± 2° CHAMFER BOTH ENDS



	.005
	.005

DISTRIBUTION STATEMENT F
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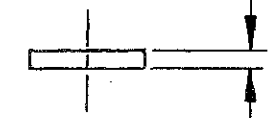
MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
			REDRAWN FROM COLT'S DRAWING	27 APR 70	
			B62342 REVISION B		
		A	SEE ERR HQR 20778	6 OCT 72	RE
		B	NOR W952009-80-02-13	80-05-16	RE
		C	ERR Z921182AU (ECP G3S3115 051109)	05-08-24	RE
		D	NOR G1S2018 910708	91-10-11	RE
		E	NOR G3S3118 931130	940317	RE

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801
CURRENT
CODE IDENT NO.
19200

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS	MIN	TOLERANCES ARE IN INCHES		DATE 27 APR 1970		US ARMY WEAPONS COMMAND	
YS	MAX	ANGLES		PREP R6D		FOCK ISLAND, ILLINOIS, 61201	
EL2	MAX	3 PLACE DECIMALS ± .005		CHK		WEIGHT, BUFFER	
RA	MAX	2 PLACE DECIMALS ±		ENGR		SIZE CODE IDENT NO. DRAWING NO.	
BH	MAX	MATERIAL		SUBMITTER		B 19204 8448617	
RH	MAX	SEE NOTE 1		APPROVED		SCALE 2 1 1	
NEXT ASSY		MIL-STD-171		R. S. Henry		SHEET 1 OF 1	
APPLICATION		MIL-STD-171				CDI	

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1. MATERIAL:- RUBBER, SYNTHETIC, CLASS I, GRADE 70, SPEC MIL-R-6855. VALCANIZED RUBBER SHALL NOT INITIATE CORROSION UPON THE METALS THAT IT COMES INTO CONTACT.



540 DIA-020

CURRENT DESIGN ACTIVITY
FSCM NO. 19200
U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES					UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $\pm$ _____ 3 PLACE DECIMALS $\pm$.005 2 PLACE DECIMALS $\pm$ _____ MATERIAL
YS	MIN				
YS	MAX				
EL2					
RA					
BH					
RH					

CONTRACT NO	DATE	27 APR 1970
PREP	RGR	GDJ
CHK	WJH	WJH
ENGR	WJH	WJH
SUBMITTED	WJH	WJH
APPROVED	R. L. Jones	

SIZE B	CODE IDENT NO. 19204	DRAWING NO. 8448618
SCALE 2/1		SHEET OF 1

REVIEWS			DATE	APPROVED
MF. ZONE	LTR	DESCRIPTION		
		REDRAWN FROM COLTS' DRAWING	27 APR 70	
		B62343 REVISION A		
	A	(1) SEE EO HRD 02197-3	15 JUL 70	SPB
	B	(1) SEE ERR HQR 20778	6 OCT 72	CRS
	C	NORWES30026 82-05-21	83-02-08	66X10140
	D	NOR GIS2018 91 07 08	91-10-11	PS
	E	NOR G9S3108 891117	970303	JB

5

4

3

2

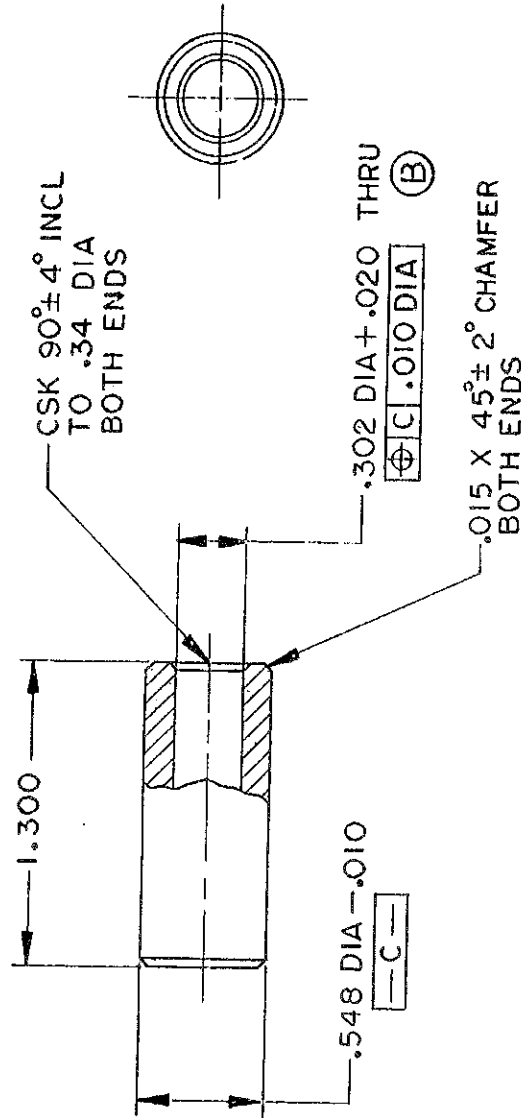
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NOTE:

1. AL ALLOY, 7075-T6 OR T651, COLD DRAWN PER QQ-A-225/9 OR AL ALLOY 7075-T6 OR T6510, EXTRUDED PER QQ-A-200/11.
2. FINISH 125/.
3. ALL DIMENSIONS APPLY BEFORE FINISH.
4. FINISH MIL-A-8625, TYPE III, CLASS I, FILM THICKNESS .0010 ± .0002.
5. MIL-W-13855 APPLIES.



REVISIONS

REV	ZONE	LTR	DESCRIPTION	DATE	APPROVED
1			REDRAWN FROM COLT'S DRAWING	27 APR 70	
2			B62412 REVISION A		
3			(2) SEE HQR 10689	26 APR 71	
4			SEE ERR HQR 20778	6 OCT 72	
5			NOCHWES00026	82-05-21	

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES:

ANGLES:

3 PLACE DECIMALS ± .005

2 PLACE DECIMALS ± .01

MATERIAL

SEE NOTE 1

FINAL PROTECTIVE FINISH

SEE NOTE 4

MECHANICAL PROPERTIES

YS MIN

YS MAX

EL 2

RA

BM

RH

C8448615

MIG6

MIG6A1

USED ON

APPLICATION

NEXT ASSY

APPROVED

DATE 27 APR 1970

PREP R614

CHK

ENGR

SUBMITTED

CONTRACT NO.

DEPT OF THE ARMY

U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201

SPACER, BUFFER

SIZE CODE IDENT NO. DRAWING NO.

B 19204 8448620

SCALE 2/1

SHEET 1 OF 1

CDI

ARMAMENT RESEARCH & DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801-5001

PARTS LIST
DOCUMENT/PART NUMBER C 8448615
BUFFER ASSEMBLY
CHANGE CONTROL NUMBER W552023 AUTHENTICATION- *Edward J. Garna*
CURRENT FSCM NO. 19200 - ORIGINAL FSCM NO. 19204
REV. DATE 25 July 85
REVISION LETTER C
SHEET 1
ORIG. DATE

FND QTY	UNIT FSCM	PART OR	DRAWING/DOCUMENT	NOMENCLATURE OR DOCUMENT TITLE	SUP
NO. REQ MEAS	NO.	IDENTIFYING NO	SIZE	NUMBER	LST
1	8448521-1	B 8448521		PIN, SPRING	
1	8448616	D 8448616		BODY, BUFFER	
5	8448617	B 8448617		WEIGHT, BUFFER	
5	8448618	B 8448618		DISC, BUFFER	
1	8448619	B 8448619		BUMPER, BUFFER	
1	8448620	B 8448620		SPACER, BUFFER	

TOTAL NUMBER OF SHEETS 1

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SD - SELECTION OPTIONAL

4

3

2

1

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NOTE:

1. VAPOR DEGREASE COMPONENTS NOTED.
2. INTERNAL COMPONENTS AND INTERIOR OF BUFFER BODY MUST BE FREE OF CHIPS AND/OR FOREIGN MATERIAL WHEN ASSEMBLED.

4. MIL-W-13855 APPLIES.

PIN, SPRING-8448521-I
ASSEMBLY AS SHOWN

SPACER, BUFFER — 8448620
NOTE 1 APPLIES

BODY, BUFFER — 8448616
NOTE 1 APPLIES

5-DISC, BUFFER — 8448618
NOTE 1 APPLIES

BUMPER, BUFFER
8448619

NO GAP PERMISSIBLE
② AFTER ASSEMBLY

5-WEIGHT, BUFFER — 8448617
NOTE 1 APPLIES

PIN, SPRING SLOT TO BE
0°±90° FROM POSITION
SHOWN

.120±.004 DIA THRU BUMPER BUFFER-8448619
AT ASSEMBLY USING HOLES IN BUFFER BODY
8448616 FOR LOCATION

.025 MAX
BOTH ENDS

DISTRIBUTION STATEMENT A. FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQC-AIR OR HIGHER DOD AUTHORITY: 92-06-22

SEE PL-8448615

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS MIN		TOLERANCES: ANGLES ±		DATE 27 APR 1970	
YS MAX		3 PLACE DECIMALS ±		PREPARED G-R	
EL 2		2 PLACE DECIMALS ±		CHECKED JHL	
RA				ENGINEER JHL	
BH				SUBMITTED JHL	
RH				APPROVED J.P. Kelly	
APPLICATION		MATERIAL		DATE 27 APR 1970	
NEXT ASSY USED ON		F8448604 M16		PREPARED G-R	
		F8448578 M16A1		CHECKED JHL	
				ENGINEER JHL	
				SUBMITTED JHL	
				APPROVED J.P. Kelly	

CURRENT DESIGN ACTIVITY
FSCM NO. 19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

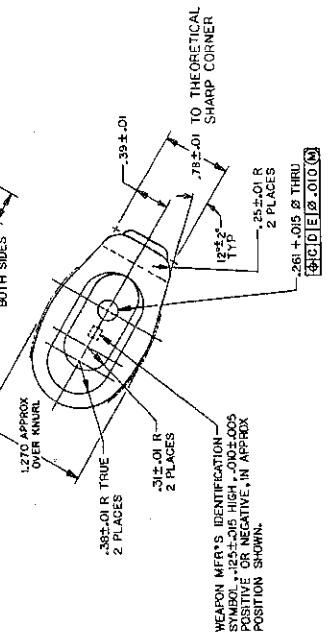
DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

BUFFER ASSEMBLY

SIZE CODE IDENT NO. DRAWING NO.
C 19204 8448615

SCALE 2/1 SHEET 1 OF 1

REV J



— MATERIAL - PLASTIC COMPOUND PER ASTM D4066, PA 623
— FINISH - ALL SURFACES SHALL BE LUSTERLESS FLAT. APPROX. 1000 GLOSS. 50/50
— FINISH - ALL SURFACES SHALL NOT LIGHTER THAN GAY. NO 30/70 TABLE VII OF
— BREAK SHARP EDGES .010±.006 UNLESS OTHERWISE NOTED.
— FILLET RADI .009±.006 UNLESS OTHERWISE NOTED.
— REMOVE ALL FLASH.
— PART SHALL BE FREE FROM POROSITY, CRACKING,
— DEFORMATION, AND/OR KNOT MARKS.
— FINISH - EXTERNAL SURFACES MUST HAVE DULL
— MATE FINISH.
— FINISH ¹²⁵/ ALL SURFACES UNLESS OTHERWISE NOTED.

WEAPON MFR'S IDENTIFICATION—
SYMBOL, .125±.015 HIGH, .010±.005
POSITIVE OR NEGATIVE, IN APPROX
POSITION SHOWN.

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313
2. PRECIPITATION HEAT TREAT AFTER FORMING, TO CONDITION CH900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
- 3.

WIRE DIAMETER 0.340 ± 0.005
COIL DIAMETER (OD) 300 MAX
FREE LENGTH 1.579 REF
TOTAL COILS 15 REF
DIRECTION OF HELIX OPTIONAL
LOAD AT COMPRESSED LENGTH OF 644 70 LB ± 7 LB
LOAD AT COMPRESSED LENGTH OF 902 50 LB ± 5 LB
SPRING RATE 7.5 LB/IN REF
SOLID LENGTH 5.175 MAX
TYPE OF ENDS CLOSED, GROUND
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

5. BREAK SHARP EDGES .003 ± .012

4. MIL-W-13855 APPLIES.

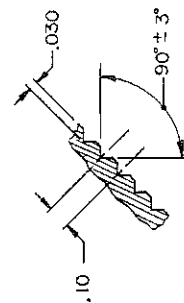
PART NO. 8448659

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DATE 5 JUN 70		DEPT OF THE ARMY	
YS MIN		TOLERANCES:		PREP		5 JUN 70		U.S. ARMY WEAPONS COMMAND	
YS MAX		ANGLES:		CHK		5 JUN 70		ROCK ISLAND, ILLINOIS 61201	
EL2		3 PLACE DECIMALS ±.005		ENGR		5 JUN 70		SPRING, HELICAL,	
RA		2 PLACE DECIMALS ±		SUBMITTED		5 JUN 70		COMPRESSION	
BH		MATERIAL		APPROVED		5 JUN 70		SIZE CODE IDENT NO. DRAWING NO	
RH	15N84.5MIN	SEE NOTE 1		5 JUN 70		5 JUN 70		B 19204 8448659	
NEXT ASSY		FINAL PROTECTIVE FINISH		5 JUN 70		5 JUN 70		SCALE NONE	
APPLICATION		541 OF MIL-STD-171		5 JUN 70		5 JUN 70		SHEET 1 OF 1	

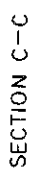
CURRENT DESIGN ACTIVITY CASE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

DUPLICATE ORIGINAL

BREAK SHARP EDGES .005 +.010
EXCEPT AS NOTED.



SCALE - NONE

[illegible]

5

4

3

2

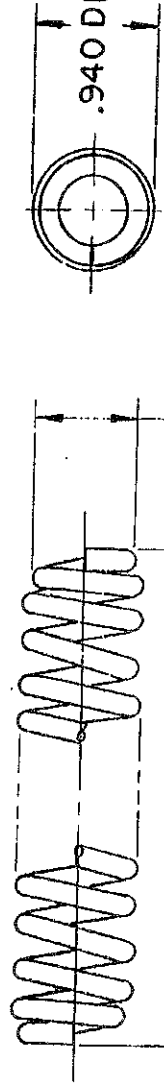
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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO COND TN CH 900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES. (B)
4. BREAK SHARP EDGES .003 ± .012.



SPRING DATA	
WIRE DIA:	.072 ± .001
TOTAL COILS:	44 REF
DIRECTION OF HELIX: OPTIONAL	
LOAD AT COMPRESSED LG OF 4.415 IN MIN OPERATING	
LENGTH = 10.9 LBS ± 1.0 LBS	
LOAD AT COMPRESSED LG OF 8.190 MEAN ASSEMBLED	
LENGTH = 5.8 LBS ± 1.5 LBS	
SOLID LENGTH:	3.285 MAX
TYPE OF ENDS: CLOSED, REDUCED AND SQUARED	

(B) MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

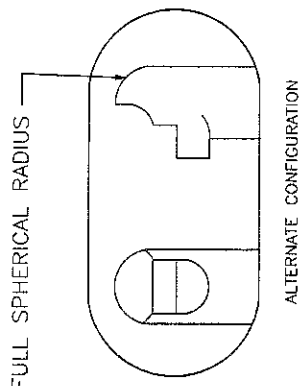
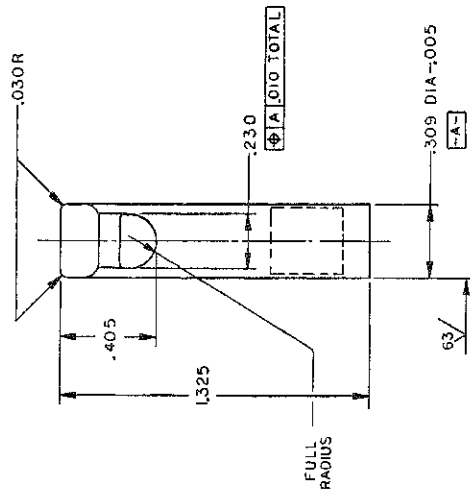
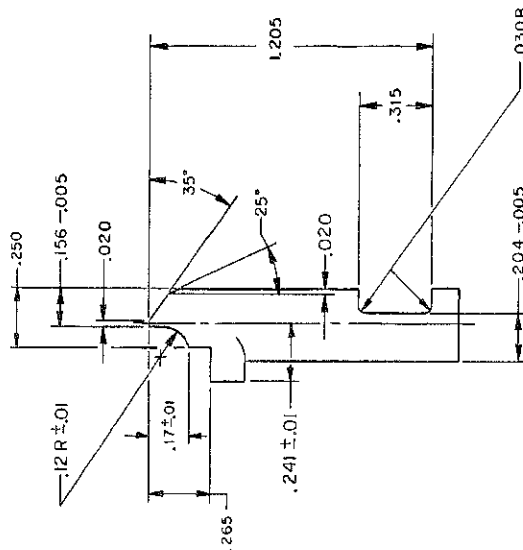
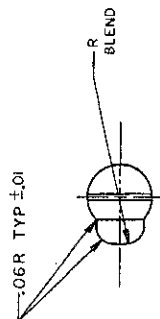
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS		TOLERANCES:		DATE	27 APR 1970	U.S. ARMY WEAPONS COMMAND	
MIN		ANGLES		PREP	9/23/70	ROCK ISLAND, ILLINOIS, 61201	
YS		3 PLACE DECIMALS ± .005		CHK	9/23/70	SPRING ACTION	
MAX		2 PLACE DECIMALS ± .01		ENGR	9/23/70		
EL 2		MATERIAL		SUBMITTED	9/23/70		
RA		SEE NOTE 1		APPROVED		SIZE	CODE IDENT NO.
BH						B	19204
RH	15N 84.5 MIN	FINAL PROTECTIVE FINISH	54.1 OF MIL-STD-171			DRAWING NO.	8448629
		NEXT ASSY				SCALE	NONE
		APPLICATION				SHEET	1 OF 1

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
FOSTER, NEW JERSEY 07808
CURRENT DESIGN ACTIVITY
FSCM NO. 19200

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NOTE:

- 1-SPEC MIL-W-13855 APPLIES
2-MATERIAL:—STEEL BAR, CARBON GRADE
1117 COLD FINISHED PER ASTM A108.
ALTERNATIVE MATERIAL: STEEL AISI 1018.
3-CARBURIZE TOTAL CASE DEPTH
.006 TO .011 HARDEN AND TEMPER.
HARDNESS TO BE FILE HARD.
4-FINISH:—EXCEPT AS NOTED.
5-PROTECTIVE FINISH:—5.3.1.3 OR
5.3.2.2 PLUS .30.7 OF
MIL-STD-171.



SYN	DESCRIPTION	RELEASE	DATE	APPROVAL
—	PRODUCTION RELEASE	ERR W3513149/33-11-14	1962. 2	TT
A	NOR W453013/34-06-01	840913	1962. 2	TT
B	NOR W4500307/34-11-15	850402	1962. 2	TT
C	NOR W653004/36-12-24	632218	1962. 2	TT
D	NOR W558004/36-02-04	850215	1962. 2	TT
E	NOR L753006/970224	970321	1962. 2	TT

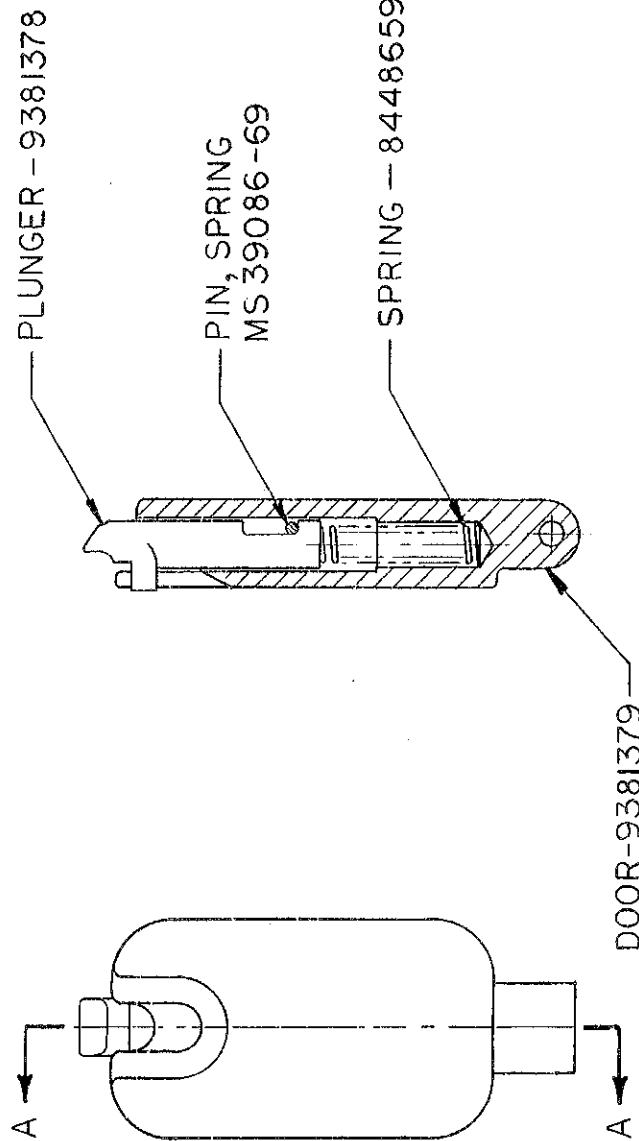
[illegible]

NOTES:
1-SPEC MIL-W-13855 APPLIES.

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	PRODUCTION RELEASE ERR W353149/83-11-14	01 02 10	
A	NOR W558004/850204	890215	LODGE



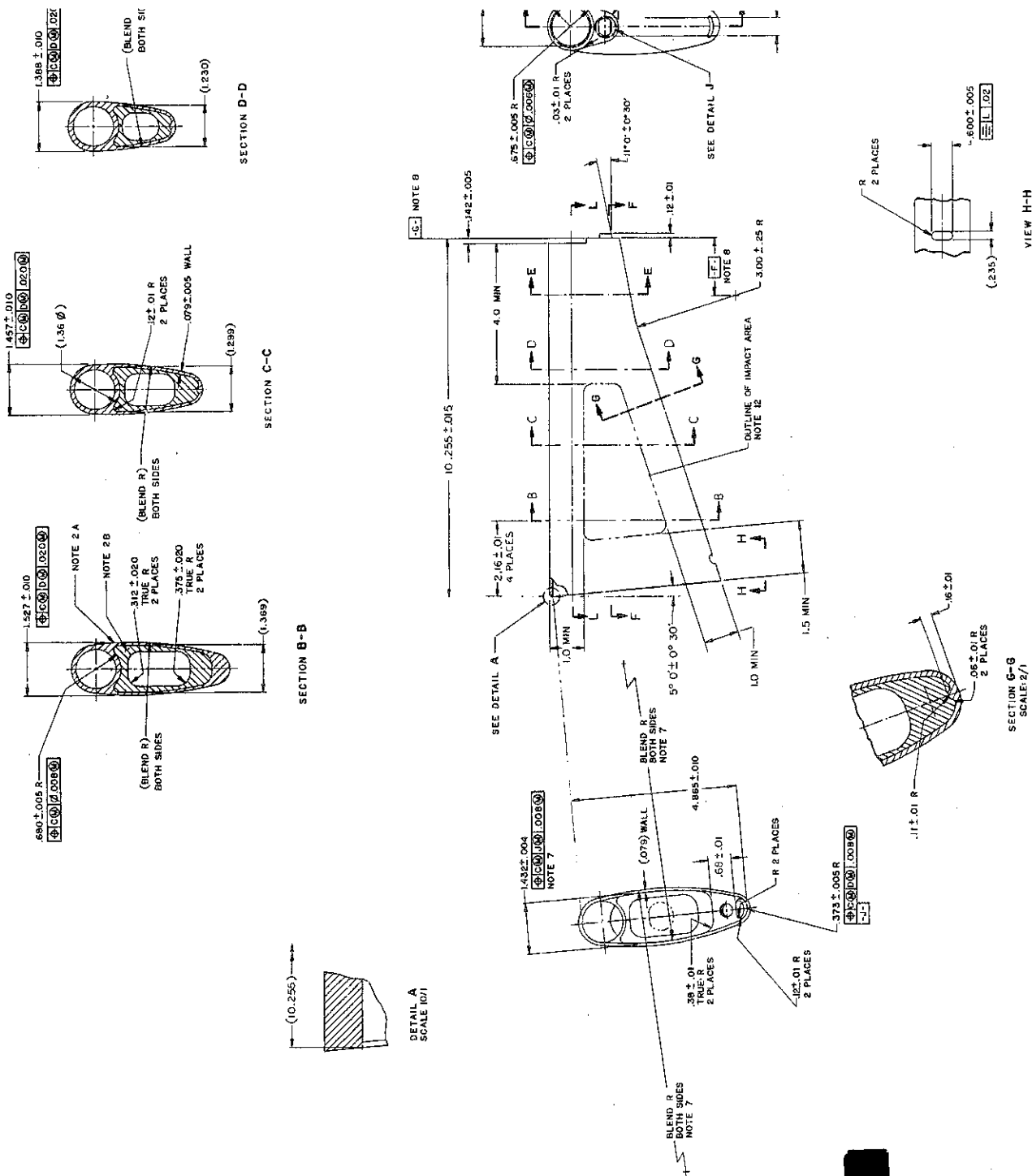
SECTION A-A

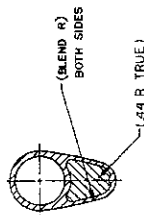
SEE SEPARATE PARTS LIST - 9381380

PART NO. 9381380

DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING 84-02-02		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAFTSMAN JW		CHECKER	
TOLERANCES ON DECIMALS ±		ENGR KSH		ENGR	
FRACTIONS ±		ENGR		ENGR	
ANGLES ±		ENGR		ENGR	
MECHANICAL PROPERTIES		Y.P.		T.S.	
EL2		RA		BH	
RH		MIG-MIGAL		MIG-A2	
9349119		MIG-A2		USED ON	
NEXT ASSY		APPLICATION		FSCM NO. C 19200	
9381380		9381380		9381380	
SCALE 2/1		UNIT WT.		SHEET	

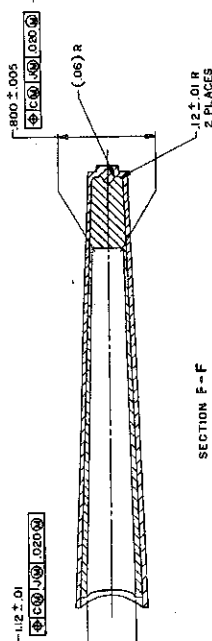
J9349 2
REV. G
F-1/2



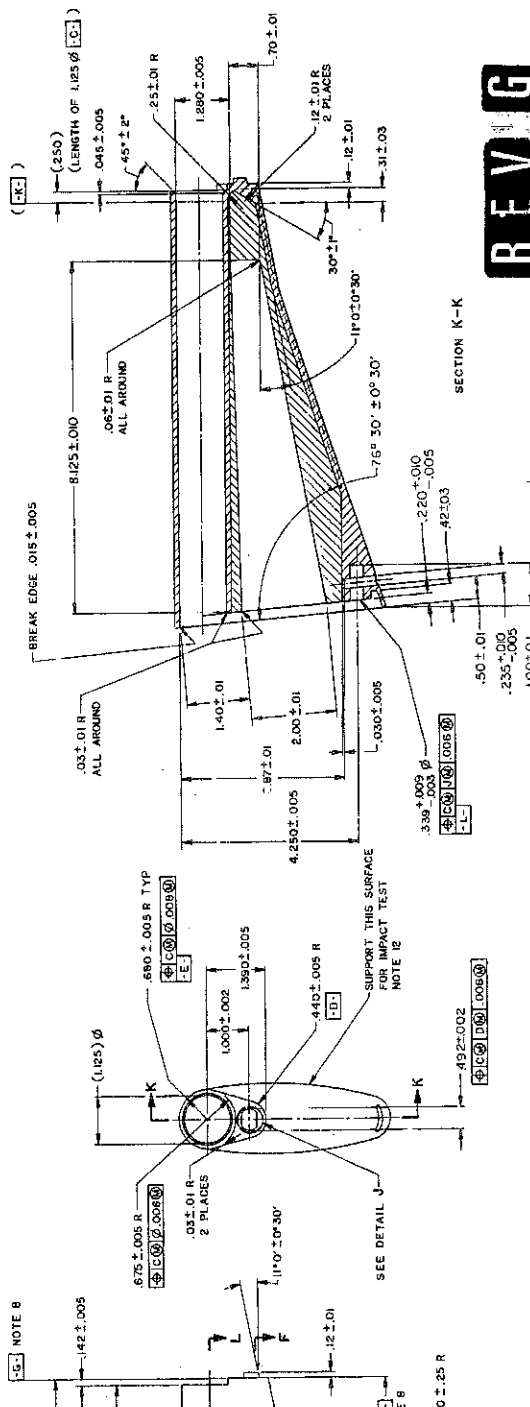
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SECTION E-3

SECTION 1



SECTION D-D

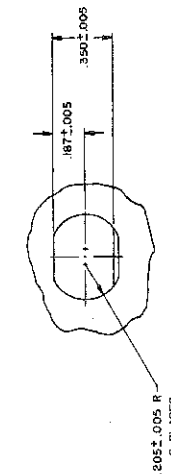


SECTION K-K

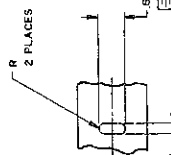
REVIEWS

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DETAIL J
SCALE: 4/1



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ASAC - AR

PARTS LIST

DOCUMENT/PART NUMBER C 8448612
 HAMMER AND HAMMER PIN RETAINER ASSY
 CHANGE CONTROL NUMBER 76V0018

ROCK ISLAND ARSENAL
 ROCK ISLAND IL

REV. DATE 16 APR 76
 REVISION LETTER B
 SHEET 1

AUTHENTICATION-

CODE ID 19204

ORIG. DATE

FND QTY UNIT CODE PART OR DRAWING/DOCUMENT
 NO. REQ MEAS ID IDENTIFYING NO. SIZE NUMBER

1	8448613	F	8448613	HAMMER	
1	8448614	B	8448614	RETAINER, HAMMER PIN	

TOTAL NUMBER OF SHEETS 1

SUP
 LIST

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

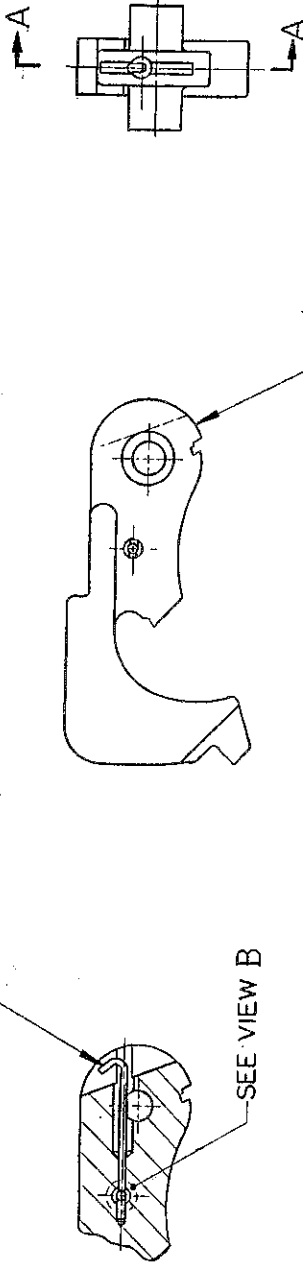
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NOTES:

1. COIN BOTH SIDES OF RETAINER, 8448614 TO EC. AFTER COINING, RETAINER SHALL HAVE .010 MIN LONGITUDINAL MOVEMENT. (B)
2. MIL-W-13855 APPLIES. (A)

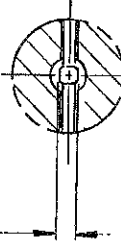
RETAINER, HAMMER PIN - 8448614



PARTIAL SECTION A-A

HAMMER - 8448613

(B) .050 +.005 -C- SEE NOTE 1.



VIEW B
SCALE 4/1

SEE PL- 8448612

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
YES	MIN	TOLERANCES:	ANGLES
YES	MAX	3 PLACE DECIMALS	2 PLACE DECIMALS
EL2	RA	MATERIAL	
3H	M16	M16	
PH	M16A1	B8448610	
APPLICATION		NEXT ASSY USED ON	
		FINAL PROTECTIVE FINISH	

CONTRACT NO:		DATE 27 APR 1970	
PREPARED BY: J. P. Kelly		CHECKED BY: J. P. Kelly	
ENGINEER: J. P. Kelly		SUBMITTED BY: J. P. Kelly	
APPROVED BY: J. P. Kelly		SIZE (CODE IDENT NO., DRAWING NO.)	
C 19204		8448612	
SCALE 2/1		SHEET 1 OF 1	

CURRENT DESIGN ACTIVITY FSCM NO. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

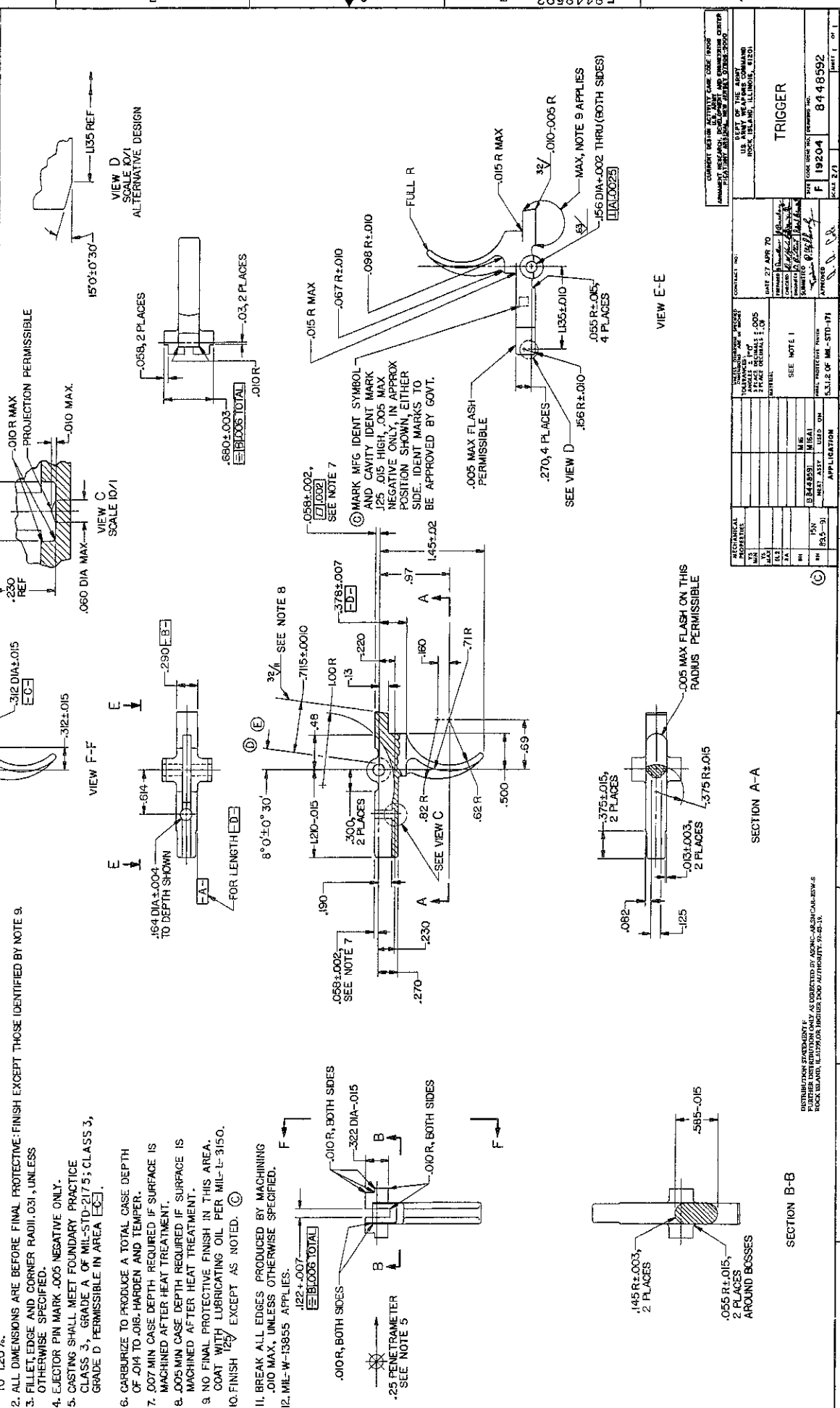
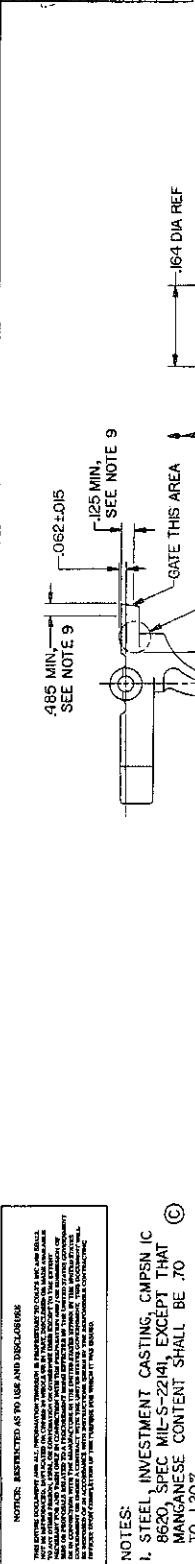
DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

HAMMER AND HAMMER PIN
RETAINER ASSEMBLY

U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

NOTES:
 1. STEEL INVESTMENT CASTING, CMPSN IC 8620, SPEC MIL-S-2241, EXCEPT THAT MANGANESE CONTENT SHALL BE .70 TO 1.20%.
 2. ALL DIMENSIONS ARE BEFORE FINAL PROTECTIVE FINISH EXCEPT THOSE IDENTIFIED BY NOTE 9.
 3. FILLET EDGE AND CORNER RADI .031 UNLESS OTHERWISE SPECIFIED.
 4. ELECTOR PIN MARK .005 NEGATIVE ONLY.
 5. CASTING SHALL MEET FOUNDRY PRACTICE CLASS 3, GRADE A OF MIL-STD-2175; CLASS 3, GRADE D PERMISSIBLE IN AREA C.
 6. CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .014 TO .018, HARDEN AND TEMPER.
 7. .007 MIN CASE DEPTH REQUIRED IF SURFACE IS MACHINED AFTER HEAT TREATMENT.
 8. .005 MIN CASE DEPTH REQUIRED IF SURFACE IS MACHINED AFTER HEAT TREATMENT.
 9. NO FINAL PROTECTIVE FINISH IN THIS AREA. COAT WITH LUBRICATING OIL PER MIL-L-3150.
 10. FINISH $\sqrt{125}$ EXCEPT AS NOTED.
 11. BREAK ALL EDGES PRODUCED BY MACHINING .010 MAX, UNLESS OTHERWISE SPECIFIED.
 12. MIL-W-13855 APPLIES.

REV	DATE	REVISIONS
1	5 OCT 70	REV A2S (REV A1) EXCHANGE
2	5 OCT 72	SEE DO HIR 20778
3	19 FEB 75	SEE EIR HIR 30811
4	6 MAR 75	SEE EIR HIR 30811
5	8 OCT 75	SEE EIR HIR 30811
6	11 OCT 75	SEE EIR HIR 30811
7	11 OCT 75	SEE EIR HIR 30811
8	11 OCT 75	SEE EIR HIR 30811
9	11 OCT 75	SEE EIR HIR 30811
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19	11 OCT 75	SEE EIR HIR 30811
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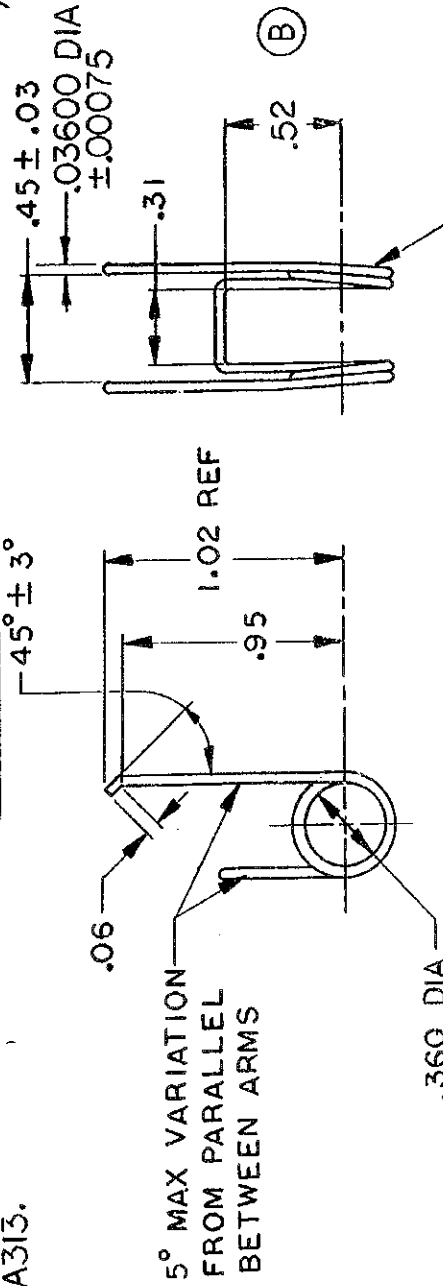


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1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.

5. MIL-W-13855 APPLIES.



1-2 COILS PER SIDE

FSCM NO
19200

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

COMPASS NO:

DATE 27 APR 1970

DATE	PREP	Q. I. M.
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CHK	<i>[Signature]</i>	<i>[Signature]</i>
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ENGR	<i>Robert D. Balliet</i>
SUBMITTED	5-9

Submitted by P. J. Williams

APPROVED *[Signature]*

K. S. Hendry

1

AMSWE Form 403B, 29 Jul 69

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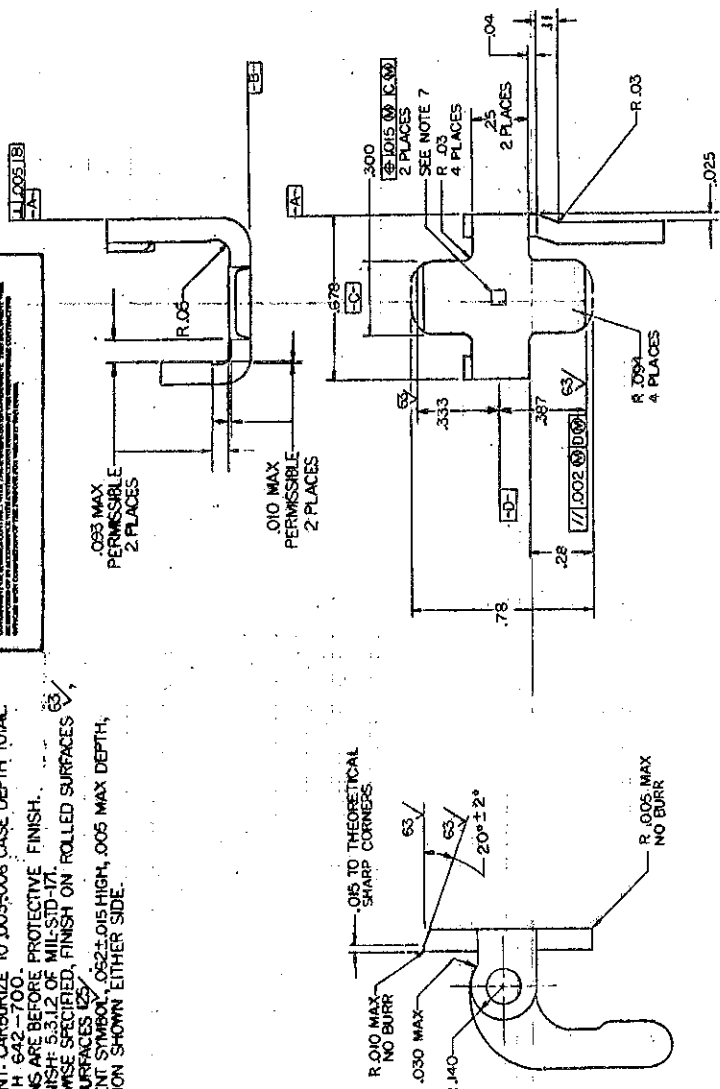
AMSWE Form 403B, 29 Jul 69

• SALON

- 1- SPEC MIL-W-18855, ANSI Y14.5M-82 AND DOD-STD-100 APPLY.
2- MATERIAL: STEEL ALLOY, ANNEALED, GRADE 4150, ASTM A505.
3- SIZE: 1/2" STOCK, THICKNESS .035X.002.
4- HEAT TREATMENT: CARBURIZE TO .005-.008 CASE DEPTH TOTAL.
HARDNESS: DPH 642 ± 700.
5- ALL DIMENSIONS ARE BEFORE PROTECTIVE FINISH.
6- PROTECTIVE FINISH: 5.312 OF MIL-STD-17.
7- UNLESS OTHERWISE SPECIFIED, FINISH ON ROLLED SURFACES
ON SHEARED SURFACES 125.
8- MARK MFG IDENT SYMBOL, .062 ± .015 MAX DEPTH,
APPROX POSITION SHOWN EITHER SIDE.

RESEARCH & RECOMMENDATIONS: 46. THE NEW AND USED CLOTHING

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ZONE	LT#	DESCRIPTION	DATE	BY	APPROVED
F		REDRAWN WITH CHANGE NOR G4S3093 910605 NOR G4S3148 911021 (ECP G4S3176 911220)	920204	AC	11
G		NOR G2S3044/920526	920625	HW	2
H		NOR G3S3062 930715	930915	HW	2

CONVENT DESIGN ACTIVITY CODE 19000
U.S. ARMY
CONVENT DESIGN DEVELOPMENT AND ENGINEERING CENTER
CONVENT DESIGN ACTIVITY CODE 19000
U.S. ARMY

PART NO 8448596

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OR RICHER DND AUTHORITY DETERMINATION NUMBER: 75-34-25

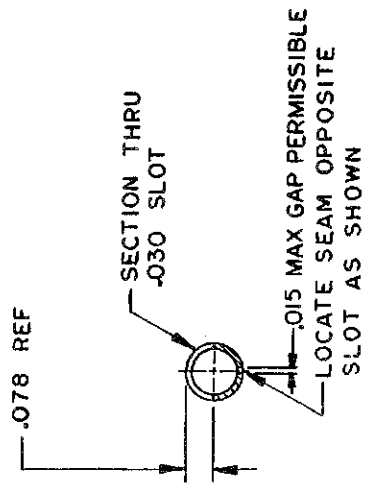
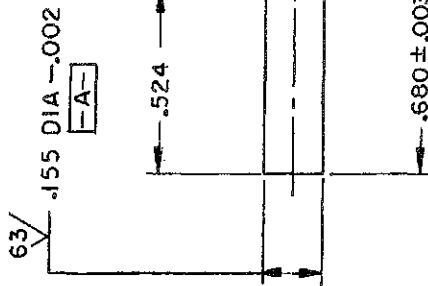
SMCAR FORM 68, 1 DEC 87(TEMP), REPLACES SMCAR FORM 68, 1 MAR 87(TEMP), WHICH MAY BE USED UNTIL EXHAUSTED

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NOTE:

1. STEEL, CORROSION RESISTING, FREE MACHINING, TYPE 303, ASTM A484.
2. FINISH $\sqrt[125]{}$ EXCEPT AS NOTED.
3. BREAK ALL SHARPEGES .005 R MAX.
4. MIL-W-13855 APPLIES.



BLANKED AND FORMED —
— ALTERNATE METHOD —

MATERIAL REQUIRED:
STAINLESS STEEL, AISI
TYPE 304, STRIP ANNEALED
(.014 THICK REF)

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
YS	MIN	ANGLES	3 PLACE DECIMALS ± .005	DATE 27 APR 1970	PREPARED	BUSHING, AUTOMATIC SEAR	
YS	MAX	3 PLACE DECIMALS ± .005	MATERIAL	APPROVED	CHECKED	C 19204	
EL2				5.4.1 OF	ENGINEER	8448597	
RA				MIL-STD-171	SUBMITTED	C 19204	
BH					APPROVED	C 19204	
RM					APPROVED	C 19204	
APPLICATION		NEXT ASSY USED ON		APPROVED		C 19204	
8448595 M4		M16		APPROVED		C 19204	
8448595 M16A1		M16		APPROVED		C 19204	

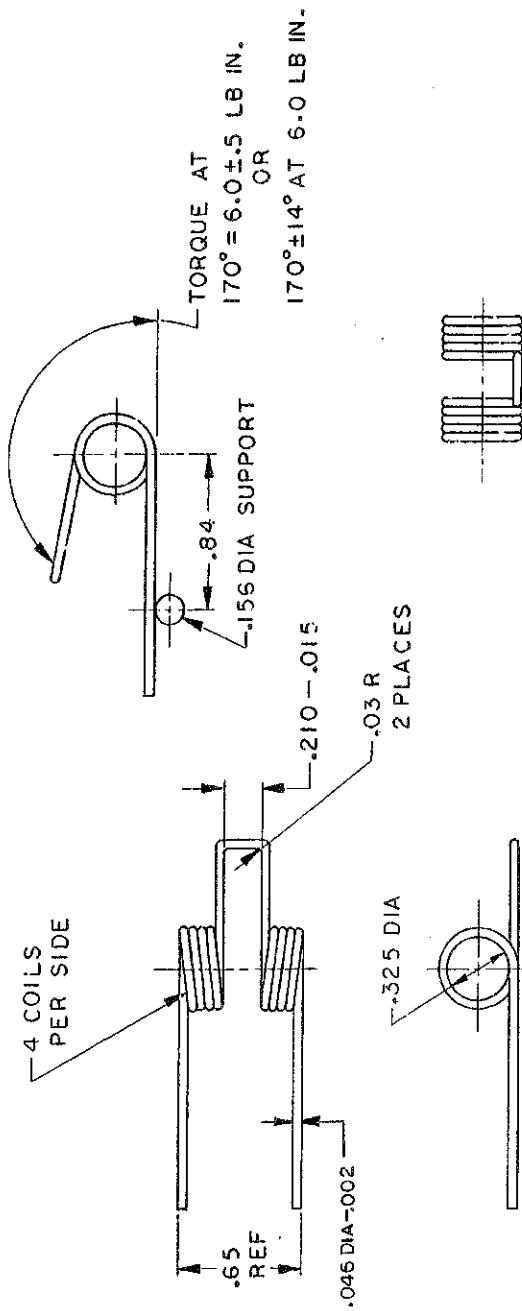
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NOTES:

1. WIRE, CORROSION RESISTING, COLD DRAWN, SPEC ASTM A313, TYPE 631, ASTM A555, WIRE DIA .046 - .002.
2. PRECIPITATION HEAT TREAT AFTER FORMING. HOLD AT 900° F ± 10° FOR 1 HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.



MF	ZONE	LTR	REVISIONS	DATE	APPROVED
			DESCRIPTION		
			REDRAWN FROM COLT'S DRAWING	27 APR 70	
			C61697 REVISION A		
			A (1) SEE EO HRD 02197-3	15 JULY 70	
			B SEE ERR HQR 20600	26 JAN 72	
			C (3) SEE ERR HQR 20778	5 OCT 72	
			D NOR W250011 / 82-04-13	82-11-04	
			(ECF W250034 / 82-07-15		
			E NOR W250010 / 820413	890501	

CURRENT DESIGN ACTIVITY FSCM NO. 19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

SPRING, HAMMER

SIZE CODE IDENT NO. DRAWING NO.
C 19204 8448611

SHEET 1 OF 1

CONTRACT NO.

DATE 27 APR 1970

PREPARED BY: [Signature]

CHECKED BY: [Signature]

ENGINEER: [Signature]

SUBMITTED BY: [Signature]

APPROVED BY: [Signature]

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES ± .005
3 PLACE DECIMALS ± .01
2 PLACE DECIMALS ± .01

SEE NOTE 1

FINAL PROTECTIVE FINISH
5.4.1 OF MIL-STD-171

MECHANICAL PROPERTIES	APPLICATION
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YS MAX	
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NOR G253059 920716 32-08-11 AJL

(ECP G253060 920630)

REVISIONS

MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
			REDRAWN FROM COLT'S DRAWING	27 APR 70	
			C92201 REVISION A		
A			(4)SEE ERR HQR 20778	6 OCT 72	RE
B			NOR W9S2009	80-02-13	80-05-15
C			NOR GIS2018	91-07-03	91-10-11

1. STEEL, CMPSN 4037, SPEC ASTM A322.

2. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.

3. FINISH 125/ EXCEPT AS NOTED.

4. BREAK ALL SHARP EDGES .005+.005.

5. FINISH 5.3.1.2 OF MIL-STD-171.

6. MIL-W-13855 APPLIES.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES:

3 PLACE DECIMALS ±.005

2 PLACE DECIMALS ±.01

MATERIAL

SEE NOTE 1

FINAL PROTECTIVE FINISH

SEE NOTE 5

MECHANICAL PROPERTIES

YS	MIN	
YS	MAX	8448505 M14
EL2		M16
RA		C8448505 M16A1
BH		
RH	15N 785-83	

APPLICATION

NEXT ASSY

USED ON

CONTRACT NO

DATE 27 APR 1970

PREP

CHK

ENGR

SUBMITTED

APPROVED

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES:

3 PLACE DECIMALS ±.005

2 PLACE DECIMALS ±.01

MATERIAL

SEE NOTE 1

FINAL PROTECTIVE FINISH

SEE NOTE 5

MECHANICAL PROPERTIES

YS	MIN	
YS	MAX	8448505 M14
EL2		M16
RA		C8448505 M16A1
BH		
RH	15N 785-83	

APPLICATION

NEXT ASSY

USED ON

DEPT OF THE ARMY

US ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS 61201

SCREW, CAP,

HEX SOCKET HEAD

SIZE

CODE IDENT NO

DRAWING NO

B

19204

8448508

SCALE

SHEET

OF

5/1

1

1

CDI

19200

CURRENT

CODE IDENT NO

#8-32-UNC-2A

ROLLED THREAD

250/

.148 MIN

30°/45° CHAMFER

.159 + .005

.062 MAX TO FULL THREAD

.164 DIA MAX

.250

.25

.077 MIN

SOCKET FOR 1/8 HEX, WRENCH

.266 ± .004

.125 + .002 TYP

53 PITCH STRAIGHT KNURL PARALLEL WITH LONGITUDINAL AXIS ON THIS DIAMETER. KNURL MUST BE SHARP, WELL DEFINED AND TO FULL DEPTH

AMSWE Form 403B, 29 Jul 69

October 15, 2004 11:33 AM

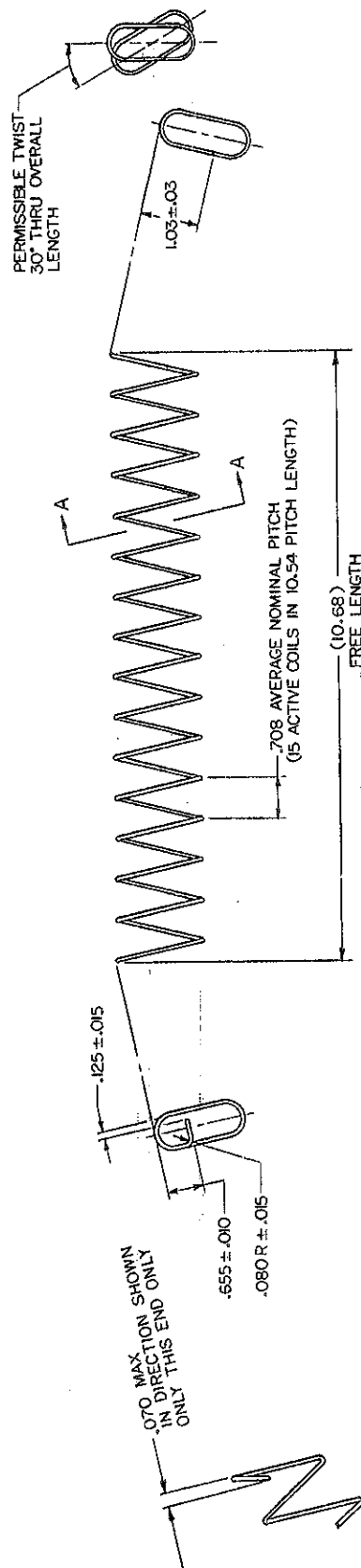
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NOTES:

1. MATERIAL: ROPE, STAINLESS STEEL, TYPE 304, (17-7PH)
2. FINISH: 120/
3. FINAL PROTECTIVE FINISH: FINISH 5.4.1 OF MIL-STD-171.
4. HEAT TREAT FOR MIL-STD-171 EXCEPT AS NOTED.
5. MIL-STD-171 APPLIES.
6. LMO HEIGHT REQUIREMENTS:
LMO AT 6.995" = 3.11 LB. ± 4 LB.
LMO AT 1.500" = 6.3 LB. ± 7 LB.

SET SPRING TO SOLID HEIGHT THREE TIMES BEFORE MEASURING LMO.



CURRENT DESIGN ACTIVITY CASE CODE 8000
ARMAMENT DESIGN CENTER
P.O. BOX 1000, NEW BRUNSWICK, NJ 07102-1000

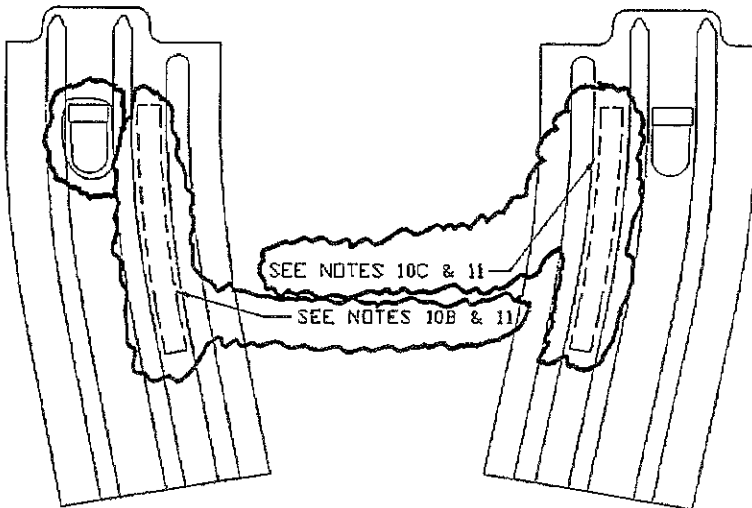
PART NO. 8448671

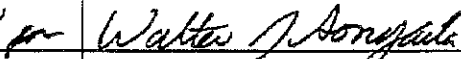
ROCK ISLAND ARSENAL
ROCK ISLAND, IL 61201SPRING, MAGAZINE,
30 ROUND

D 19204 8448671

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ON ANGLES ± 1° FRACTION ± .01 ± .01	THIRD ANGLE PROJECTION	DATE 5 JUN 70	BY M.M.	APPROVED R.S. HENRY
MECHANICAL PROPERTIES	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.1	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.2	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.3	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.4	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.5	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.6	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.7	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.8	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
1.9	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.0	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.1	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.2	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.3	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.4	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.5	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.6	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.7	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.8	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
2.9	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
3.0	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
3.1	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
3.2	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
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3.8	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
3.9	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
4.0	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
4.1	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
4.2	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
4.3	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
4.4	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
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6.3	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
6.4	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
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6.8	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
6.9	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
7.0	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
7.1	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
7.2	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
7.3	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
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9.8	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
9.9	30 ROUND	5 JUN 70	M.M.	R.S. HENRY
10.0	30 ROUND	5 JUN 70	M.M.	R.S. HENRY

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 990907	Form Approved OMB No. 0704-0188
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		2. PROCURING ACTIVITY NO.	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.		3. DODAAC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE 19200	6. NOR NO. 0002
d. TYPED NAME (First, Middle Initial, Last) Skip Winters	AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	7. CAGE CODE 19200	8. DOCUMENT NO. 8448673
9. TITLE OF DOCUMENT PLATE, BOTTOM, MAGAZINE	10. REVISION LETTER a. CURRENT G	b. NEW ---	11. ECP NO. 2953017
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm			
13. DESCRIPTION OF REVISION			
ZONE B-3,4: CHANGE FROM: "CONTRACTORS IDENTIFICATION TO BE APPROVED BY THE GOVERNMENT" TO: "SEE NOTE 8" UNDER NOTES ADD: "8. CONTRACTORS IDENTIFICATION IS OPTIONAL, IF IDENTIFICATION IS USED, IT MUST BE APPROVED BY THE GOVERNMENT." REASON: THE CONTRACTORS IDENTIFICATION IS NOW REQUIRED ON THE MAGAZINE BOX, DRAWING 8448674.			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	X	(1) Existing document supplemented by this NOR may be used in manufacture.	
		(2) Revised document must be received before manufacturer may incorporate this change.	
		(3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cal Wpn Sys Div	e. SIGNATURE <i>Walter J. Songach</i>	f. DATE SIGNED (YYMMDD) 991006	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 990907	Form Approved OMB No. 0704-0188
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.	
4. ORIGINATOR		5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) Skip Winters	b. ADDRESS (Street, City, State, Zip Code) AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	7. CAGE CODE	8. DOCUMENT NO. 8448674 SH 1 OF 2
9. TITLE OF DOCUMENT BOX, MAGAZINE, 30 ROUND		11. ECP NO. 1953017	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm		NOR SH 2 OF 2	
13. DESCRIPTION OF REVISION ADD VIEW CALLOUTS AS SHOWN SHEET 1 ZONE C-5 SHEET 2 ZONE C-4 			
REASON: THE BATF REQUIRES THESE CHANGES TO BE MADE.			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	☒	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cal Wpn Sys Div		e. SIGNATURE <i>for Walter J. Sonzogni</i>	f. DATE SIGNED (YYMMDD) 991006
15.a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)

NOTICE OF REVISION (NOR)		1. DATE (YYMMDD) 990907	Form Approved OMB No. 0704-0188
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		2. PROCURING ACTIVITY NO.	
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		3. DODAAC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE 19200	6. NOR NO. 0001
a. TYPED NAME (First, Middle Initial, Last) Skip Winters	AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	7. CAGE CODE 19200	8. DOCUMENT NO. 8448674 SH 1 OF 2
9. TITLE OF DOCUMENT BOX, MAGAZINE, 30 ROUND	10. REVISION LETTER a. CURRENT R	b. NEW	11. ECP NO. 6953017
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm			NOR SH 1 OF 2
13. DESCRIPTION OF REVISION DELETE NOTE 10 IN ITS ENTIRETY AND SUBSTITUTE WITH THE FOLLOWING: 10. INSCRIPTIONS A. - MANUFACTURER'S CAGE CODE AND MONTH AND YEAR, +/- TWO MONTHS OF MANUFACTURE. B. - MARKING SHALL READ AS FOLLOWS "RESTRICTED LAW ENFORCEMENT/GOVERNMENT USE ONLY" OR BATF APPROVED EQUIVALENT. C. - MARKING SHALL BE CONTRACTORS NAME, CITY, AND STATE. 11. MARKINGS ON MAGAZINE BOX SHALL BE INSCRIBED PRIOR TO APPLICATION OF HARD COAT AND SOLID FILM LUBRICANT. LETTERS SHALL BE APPROXIMATELY 0.1 HIGH X .005 + .005 DEEP. MARKING SHALL NOT EXTEND IN AREA 1.0 INCH FROM TOP OR 0.5 INCH FROM BOTTOM OF MAGAZINE BOX. ZONE C-4, CHANGE FROM: SEE NOTE 10 TO: SEE NOTES 10A & 11 ZONE E-5 ADD PHANTOM LINE AROUND THE CUTOUT FOR THE OPPOSITE SIDE. (SEE NOR SH 2 OF 2) SEE NOR SH 2 OF 2 FOR THE PLACEMENT OF REQUIRED INSCRIPTIONS. REASON: THE BATF REQUIRES THESE CHANGES TO BE MADE.			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	☒ (1) Existing document supplemented by this NOR may be used in manufacture. ☐ (2) Revised document must be received before manufacturer may incorporate this change. ☐ (3) Custodian of master document shall make above revision and furnish revised document.	3	
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cal Wpn Sys Div	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 99/006	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	



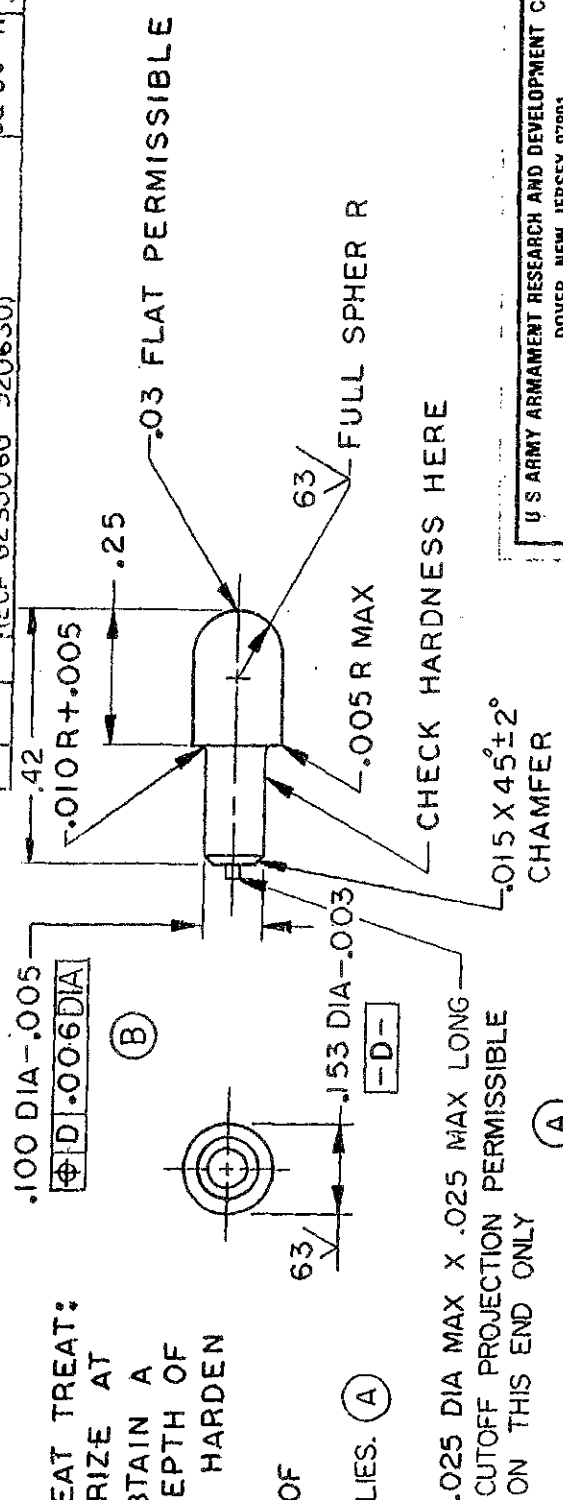
5 4 3 2 1

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NOTE:

1. FINISH 125/ V EXCEPT AS NOTED.
2. SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550°F TO OBTAIN A TOTAL CASE DEPTH OF .003 TO .006. HARDEN AND TEMPER.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. MIL-W-13855 APPLIES. (A)



REVISIONS			
AMP	ZONE	LTR	DESCRIPTION
			REDRAWN FROM COLT'S DRAWING
			C62178 REVISION B
			A (2) SEE EO HRD 02254
			B (2) SEE ERR HQR 20778
			C NOR W9S2009 80-02-13
			D NOR G7S3114/870911
			E NOR GIS2018/ 91-07-08
			F NOR G2S3059 920715
			IECP G2S3060 920630
			DATE
			27 APR 70
			15 OCT 70
			6 OCT 72
			80-05-16
			880112
			91-10-11
			92-08-11

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

CODE IDENT NO.
19200

CONTRACT NO.	DATE 27 APR 1970	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	PREP 7/1/70	CHX 0.9.70
TOLERANCES: 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .01	ENGR 2/2/70	SUBMITTED 2/2/70
MATERIAL STEEL, CMPSN 1117 ASTM A108	APPROVED R. J. Henry	SCALE 5/1
FINAL PROTECTIVE FINISH SEE NOTE 3		

MECHANICAL PROPERTIES		APPLICATION	
YS	MIN	9390011	M4
YS	MAX	F 9327230	M 231
EL 2	RA	F8448604	M16
BH	RA	F8448578	M16 A1
FILE HARD			

DISTRIBUTION STATEMENT E. FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY, 92-06-22.

SIZE	CODE IDENT NO.	DRAWING NO.
B	19204	8448634
SCALE 5/1		
SHEET 1 OF 1		

PLUNGER, BOLT CATCH

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT TREAT AFTER FORMING TO COND TN CH 900. HOLD AT 900°F ± 10° FOR 1 HOUR. AIR COOL.

3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003 ± .012.

SPRING, HELICAL, COMPRESSION

- WIRE DIAMETER .0160 ± .0005
- COIL DIAMETER (OD) .088 ± .003
- FREE LENGTH 1.10 REF
- TOTAL COILS 40 REF
- DIRECTION OF HELIX OPTIONAL
- LOAD AT COMPRESSED LENGTH OF .750 2.20 LBS ± .22 LBS
- LOAD AT COMPRESSED LENGTH OF _____
- SPRING RATE .670 MAX
- SOLID LENGTH CLOSED
- TYPE OF ENDS _____
- MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

ME	ZONE	LTR	DESCRIPTION	DATE	APPROVED
MA		B	REPLACES REV A W/CHANGE SEE ERR HQR 20778	6 OCT 72	RB
MA		C	NOR W9S2009 80-02-13	80-05-16	RB
		D	NOR W2S0011 / 82-04-13 CECP W2S0034 / 82-07-15 CECF W3S3120 / 83-07-07	83-11-04	RB
		E	NOR-GIS2018 / 91-07-08	91-10-11	RB

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO. DATE 27 APR 1970		PART NO. 8448586		FSCM NO. 19200	
YS MIN		9390011	M4	PREP	CH	CHK	ENG	U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
YS MAX		F9327230	M231	CHK	CHK	CHK	CHK		
EL2		F8448604	M16	ENG	ENG	ENG	ENG		
RA		F8448578	M16AI	SUBMITTED	SUBMITTED	SUBMITTED	SUBMITTED		
BH				APPROVED	APPROVED	APPROVED	APPROVED		
RH	15N 845 MIN	APPLICATION		SEE NOTE 1		SIZE CODE IDENT NO. DRAWING NO.			
				5.41 OF MIL-STD-171		B 19204		8448586	
						SCALE NONE		SHEET 1 OF 1	

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

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REVISIONS			
MF ZONE	LTR	DESCRIPTION	DATE
	C	REPLACES REV B W/CHANGE SEE ERR HQR 20778	6 OCT 72
	D	NOR W9S2009 80-02-13	30-05-16
	E	NOR W2S 0011 / 82-04-13 (ECP W3S 3120 / 83-07-07)	83-11-04
	F	ERR Z9Z1251W (ECP G9S2036/890721)	900403
	G	NOR GIS2018 91-07-08	91-10-11

NOTES:

1. WIRE, STEEL, CARBON,
SPRING, MUSIC, SPEC
ASTM-A228. TENSILE
STRENGTH SHALL BE
376,000 MIN.
2. STRESS RELIEVE AFTER
FORMING. HOLD AT 475°F
±25" FOR 30 MINUTES.
3. SET SPRING 3 TIMES
AFTER STRESS RELIEF.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 ±.012.

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER ----- 0240 ±.0003
COIL DIAMETER (OD) ----- 103 ±.003
FREE LENGTH AFTER SETTING ----- 926 REF
TOTAL COILS ----- 27 REF
DIRECTION OF HELIX ----- OPTIONAL
LOAD AT COMPRESSED LENGTH OF .850 ----- 2.94 LB ±.30LB
LOAD AT COMPRESSED LENGTH OF .784 ----- 5.50 LB ±.25LB
SPRING RATE -----
SOLID LENGTH ----- 650 MAX
TYPE OF ENDS ----- SQUARED, GROUND
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

FSCM NO.
19200

CURRENT

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PART NO. 8448516

MECHANICAL PROPERTIES	8448509	M4	CONTRACT NO.	ROCK ISLAND ARSENAL, ROCK ISLAND, ILL 61201
YS MIN	F9327230	M 231	DATE	27 APR 70
YS MAX		M16	PREP	PV L.P.
EL2	C8448509	MISAI	CHK	GP DK
RA	F8448604	M16	ENGR	RE L.B.
BH	F8448578	MISAI	SUBMITTED	
RH			APPROVED	
NEXT ASSY		USED ON	A.A. COLE	
APPLICATION			R.S. HENRY	
			SEE NOTE 1	
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
			TOLERANCES:	
			ANGLES	
			3 PLACE DECIMALS ±.005	
			2 PLACE DECIMALS ±	
			MATERIAL	
			SPRING, EJECTOR AND SAFETY DETENT	
			SIZE CODE IDENT NO. DRAWING NO.	
			B 19204 8448516	
			SCALE NONE	
			SHEET 1 OF 1	

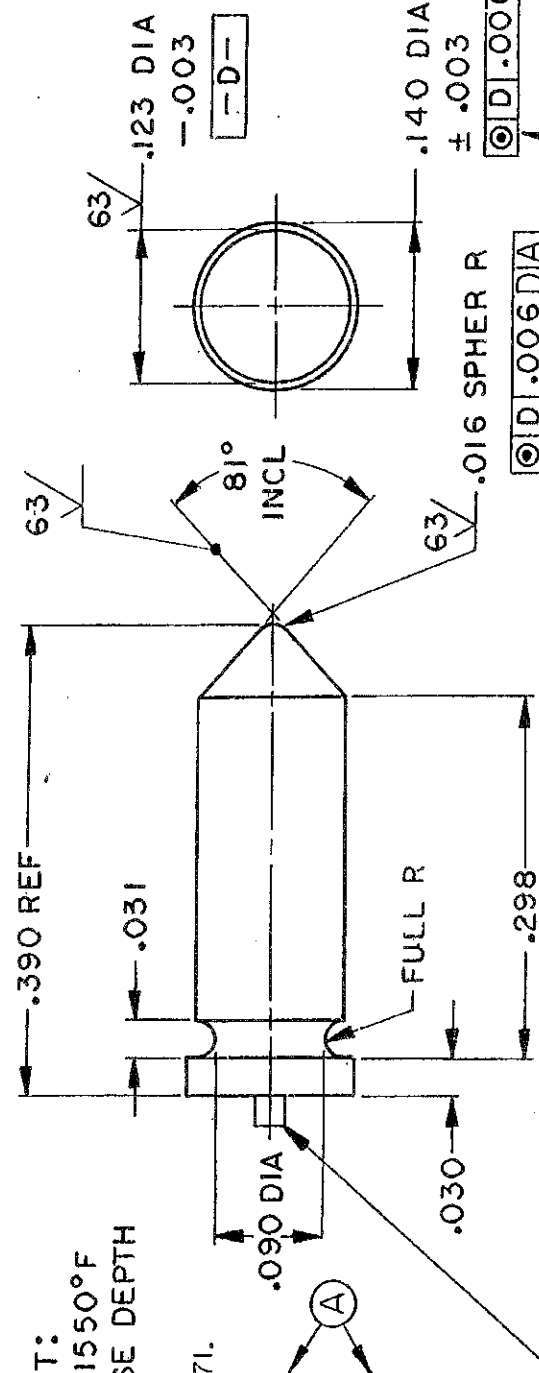
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NOTE:

1. FINISH 125/ EXCEPT AS NOTED.
2. SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550°F TO OBTAIN A TOTAL CASE DEPTH OF .010 / .015.
3. FINISH 11.2.1 OF MIL-STD-171. DO NOT BAKE FOR EMBRITTLEMENT RELIEF.
4. BREAK SHARP EDGES .005 ± .010.
5. ALL DIMENSIONS APPLY AFTER FINISH.
6. MIL-W-13855 APPLIES. (B)

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
M			REDRAWN FROM COLT'S DRAWING C61785 REVISION C
A	(1)	SEE EO HRD 02197-3	
B	(2)	SEE EO HRD 02252	
C	(3)	SEE ERR HQR 20778	
D	NOR	W952009 80-02-13	
E	NOR	G753065 / 870515	
F	NOR	GIS2018 / 91 07 08	
		DATE	APPROVED
		27 APR 70	
		15 JUL 70	
		15 OCT 70	
		6 OCT 72	
		80-05-16	
		880112	
		91-10-11	



(B) .025 DIA MAX X .025 MAX LONG CUTOFF PROJECTION PERMISSIBLE ON THIS END ONLY

CURRENT DESIGN ACTIVITY

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

CODE IDENT NO.
19200

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
YS	MIN	9390011	M4	DATE	27 APR 1970	DETENT, FIRE	
YS	MAX	F 9327230	1M 231	PREP	Chapman	CONTROL SELECTOR	
EL 21	RA	F 8448604	M16	CHK	Chapman	SIZE CODE IDENT NO. DRAWING NO.	
BH	USED ON	F 8448578	M16A1	ENGR	Chapman	B 19204	8448631
RM	15N 89-91	NEXT ASSY	USED ON	SUBMITTED	Chapman	SCALE 10/1	SHEET 1 OF 1
APPLICATION				APPROVED	Chapman	CDI	
SEE NOTE 3							

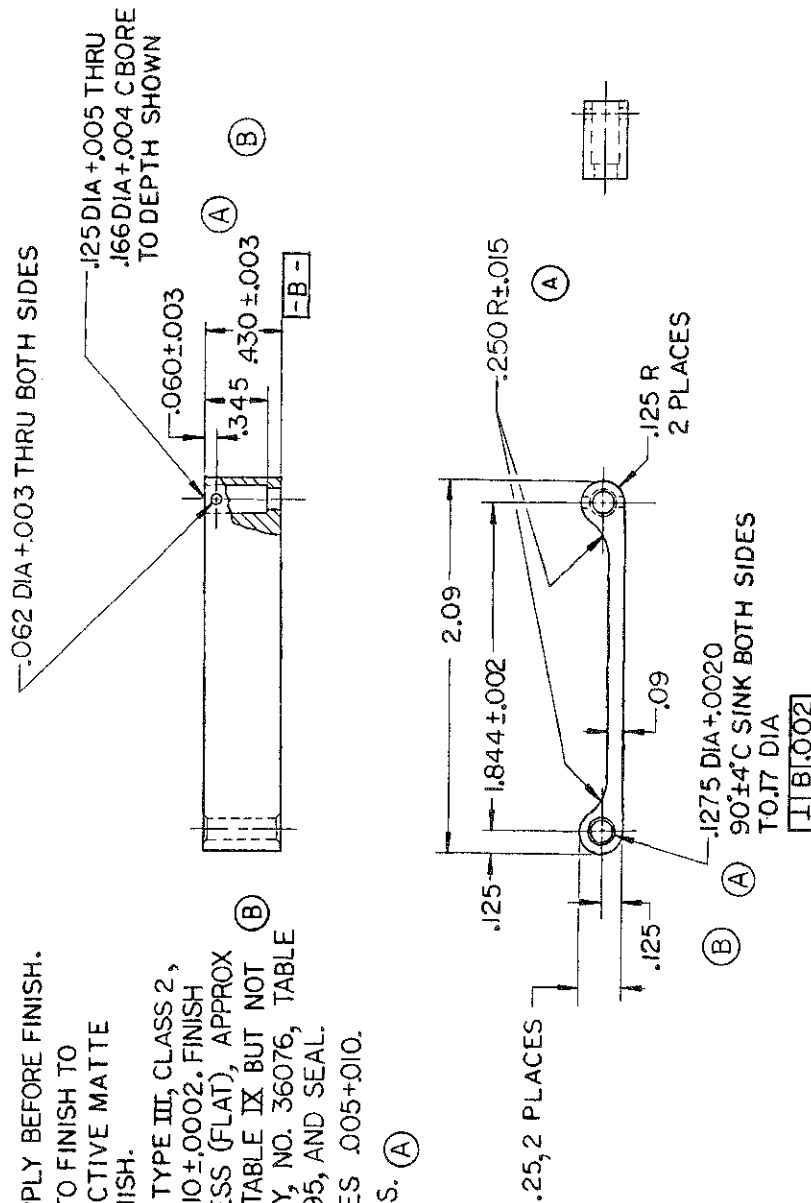
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OFFICER UPON COMPLETION OF THE PURPOSE FOR WHICH IT WAS ISSUED.

1. FINISH 125/.

2. ALL DIMENSIONS APPLY BEFORE FINISH.
3. SANDBLAST PRIOR TO FINISH TO PRODUCE NONREFLECTIVE MATTE SURFACE AFTER FINISH.
4. FINISH MIL - A-8625 TYPE III, CLASS 2, FILM THICKNESS .0010 ± .0002. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
5. BREAK SHARP EDGES .005 ± .010.
6. MIL-W-13855 APPLIES. (A)



MECHANICAL PROPERTIES	YS		
	MINI		
	YS		
	MAX		
	EL2		
RA		8448587	M4
BH		88448587	M231
			MI6
		88448587	MI6A1
RH		NEXT ASSY	USED ON
		APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES ± —
3 PLACE DECIMALS ± .005
2 PLACE DECIMALS ± .01

**ALUMINUM ALLOY
7075-T6, SPEC
ASTM B221**

FINAL PROTECTIVE FINISH

APPLICATION

AMSWE Form 403C, 29 Jul 69

CONTRACT NO.:

DATE 27 APR 1970

PREPARED	B. E. M.	A. J. - At.
CHECKED	<i>[Signature]</i>	D. Y. B.
ENGINEER	<i>[Signature]</i>	D. B. Elliot
SUBMITTED		

7,000 feet

APPROVED
D.D.1

CODE IDENT NO.
19200

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND
DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

GUARD, TRIGGER

SIZE	CODE	IDENT NO.	DRAWING NO.
C	19204	8448588	

SCALE 2/1

CDI

[illegible]

1. WIRE, STEEL, CORROSION

RESISTING, FREE MACHINING

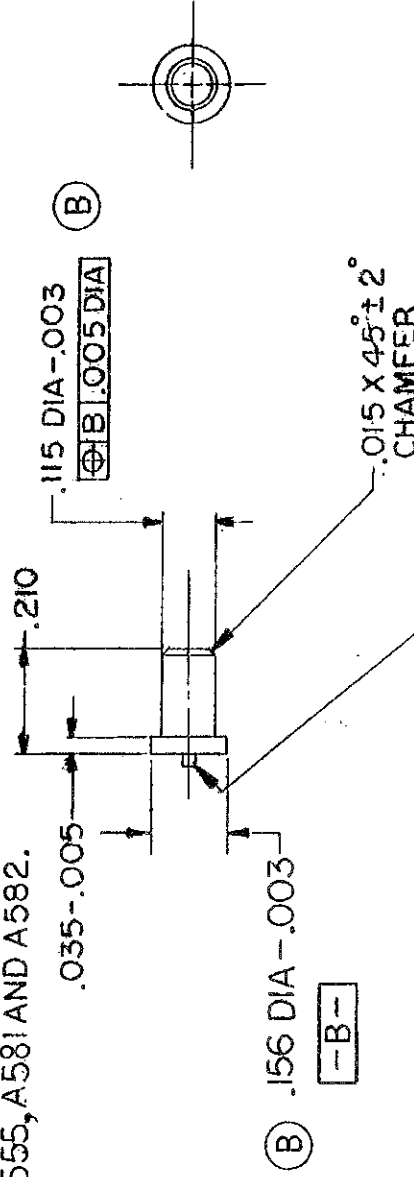
STOCK, CLASS 303, ANNEALED,

COLD DRAWN, SPEC ASTM A555, A581 AND A582.

2. FINISH

3. BREAK ALL SHARP EDGES
.005+.005.

4. MIL-W-13855 APPLIES.



0.025 DIA MAX X 0.025 MAX LONG
CUTOFF PROJECTION PERMISSIBLE
ON THIS END
ONLY.

**DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQC-ARI OR HIGHER DOD AUTHORITY;
DATE OF DETERMINATION:**

MECHANICAL PROPERTIES		UN. OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DATE		27 APR 1970	
YS	MIN	8448587	M4	PREP	RGF	Q. J. H.	CHK	W. H. H.	W. H. H.
YS	MAX	B8448587	M231	ENGR	D. H. H.	S. B. H.	SUBMITTED		
EL2				SEE NOTE 1					
RA			M16	MATERIAL					
BH		B8448587	M16AI	FINAL PROTECTIVE FINISH					
RH				5.4.1 OF MIL-STD-171					
		NEXT ASSY	USED ON	APPLICATION					



TO THE PUBLIC, THE FOLLOWING IS A SUMMARY OF THE INFORMATION RECEIVED FROM THE ABOVE-NAMED SOURCES:

NOTES:

1. STEEL, INVESTMENT CASTING, CMPSN IC 8620, SPEC MIL-S-22141, EXCEPT THAT MANGANESE CONTENT SHALL BE .70 TO 1.20%.

GRADE B, IN AREA DESIGNATED
☐ REMAINDER OF CASTING
 CLASS 3, GRADE A.

3. ALL DIMENSIONS APPLY

6. EJECTOR PIN MARKS .005 POSITIVE TO .005 NEGATIVE.

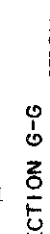
7. CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .010 TO .015 HARDEN AND

9. FINISH ¹²⁵EXCEPT AS NOTED.
10. SEE SHEET 2 FOR ALTERNATIVE
11. PROTECTIVE FINISH 5.3.1.2 OF MI
12. MIL-W-13855 APPLIES.

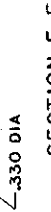
AMERICAN POLICE ASSOCIATION
ATTORNEYS GENERAL



① 12 PENE FRAME IEN



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7
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11

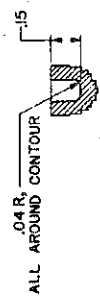


POSITION SHOWN.

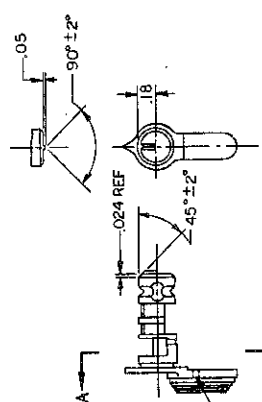
1

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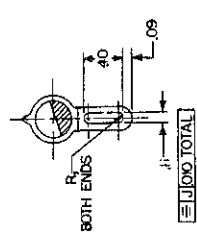
REV	DESCRIPTION	DATE	APPROVED
1	PRODUCTION RELEASE	04/03/27	
2	DESIGN CHANGES		
3	REV. 001/002/003/004/005	04/03/27	
4	REV. 006/007/008/009/010	04/03/27	
5	REV. 011/012/013/014/015	04/03/27	
6	REV. 016/017/018/019/020	04/03/27	
7	REV. 021/022/023/024/025	04/03/27	
8	REV. 026/027/028/029/030	04/03/27	
9	REV. 031/032/033/034/035	04/03/27	
10	REV. 036/037/038/039/040	04/03/27	
11	REV. 041/042/043/044/045	04/03/27	
12	REV. 046/047/048/049/050	04/03/27	
13	REV. 051/052/053/054/055	04/03/27	
14	REV. 056/057/058/059/060	04/03/27	
15	REV. 061/062/063/064/065	04/03/27	
16	REV. 066/067/068/069/070	04/03/27	
17	REV. 071/072/073/074/075	04/03/27	
18	REV. 076/077/078/079/080	04/03/27	
19	REV. 081/082/083/084/085	04/03/27	
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22	REV. 096/097/098/099/100	04/03/27	
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24	REV. 106/107/108/109/110	04/03/27	
25	REV. 111/112/113/114/115	04/03/27	
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40	REV. 186/187/188/189/190	04/03/27	
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139	REV. 681/682/683/684/685	04/03/27	
140	REV. 686/687/688/689/690	04/03/27	
141	REV. 691/692/693/694/695	04/03/27	
142	REV. 696/697/698/699/700	04/03/27	
143	REV. 701/702/703/704/705	04/03/27	
144	REV. 706/707/708/709/710	04/03/27	
145	REV. 711/712/713/714/715	04/03/27	
146	REV. 716/717/718/719/720	04/03/27	
147	REV. 721/722/723/724/725	04/03/27	
148	REV. 726/727/728/729/730	04/03/27	
149	REV. 731/732/733/734/735	04/03/27	
150	REV. 736/737/738/739/740	04/03/27	
151	REV. 741/742/743/744/745	04/03/27	
152	REV. 746/747/748/749/750	04/03/27	
153	REV. 751/752/753/754/755	04/03/27	
154	REV. 756/757/758/759/760	04/03/27	
155	REV. 761/762/763/764/765	04/03/27	
156	REV. 766/767/768/769/770	04/03/27	
157	REV. 771/772/773/774/775	04/03/27	
158	REV. 776/777/778/779/780	04/03/27	
159	REV. 781/782/783/784/785	04/03/27	
160	REV. 786/787/788/789/790	04/03/27	
161	REV. 791/792/793/794/795	04/03/27	
162	REV. 796/797/798/799/800	04/03/27	
163	REV. 801/802/803/804/805	04/03/27	
164	REV. 806/807/808/809/810	04/03/27	
165	REV. 811/812/813/814/815	04/03/27	
166	REV. 816/817/818/819/820	04/03/27	
167	REV. 821/822/823/824/825	04/03/27	
168	REV. 826/827/828/829/830	04/03/27	
169	REV. 831/832/833/834/835	04/03/27	
170	REV. 836/837/838/839/840	04/03/27	
171	REV. 841/842/843/844/845	04/03/27	
172	REV. 846/847/848/849/850	04/03/27	
173	REV. 851/852/853/854/855	04/03/27	
174	REV. 856/857/858/859/860	04/03/27	
175	REV. 861/862/863/864/865	04/03/27	
176	REV. 866/867/868/869/870	04/03/27	
177	REV. 871/872/873/874/875	04/03/27	
178	REV. 876/877/878/879/880	04/03/27	
179	REV. 881/882/883/884/885	04/03/27	
180	REV. 886/887/888/889/890	04/03/27	
181	REV. 891/892/893/894/895	04/03/27	
182	REV. 896/897/898/899/900	04/03/27	
183	REV. 901/902/903/904/905	04/03/27	
184	REV. 906/907/908/909/910	04/03/27	
185	REV. 911/912/913/914/915	04/03/27	
186	REV. 916/917/918/919/920	04/03/27	
187	REV. 921/922/923/924/925	04/03/27	
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189	REV. 931/932/933/934/935	04/03/27	
190	REV. 936/937/938/939/940	04/03/27	
191	REV. 941/942/943/944/945	04/03/27	
192	REV. 946/947/948/949/950	04/03/27	
193	REV. 951/952/953/954/955	04/03/27	
194	REV. 956/957/958/959/960	04/03/27	
195	REV. 961/962/963/964/965	04/03/27	
196	REV. 966/967/968/969/970	04/03/27	
197	REV. 971/972/973/974/975	04/03/27	
198	REV. 976/977/978/979/980	04/03/27	
199	REV. 981/982/983/984/985	04/03/27	
200	REV. 986/987/988/989/990	04/03/27	
201	REV. 991/992/993/994/995	04/03/27	
202	REV. 996/997/998/999/1000	04/03/27	



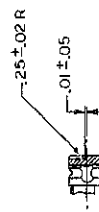
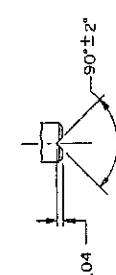
SECTION B-B
SCALE 4/1



MARK MFG IDENT SYMBOL
AND CAVITY IDENTIFICATION
MARK .06 HIGH APPROX.
.005 MAX NEGATIVE ONLY,
IN APPROX POSITION SHOWN.



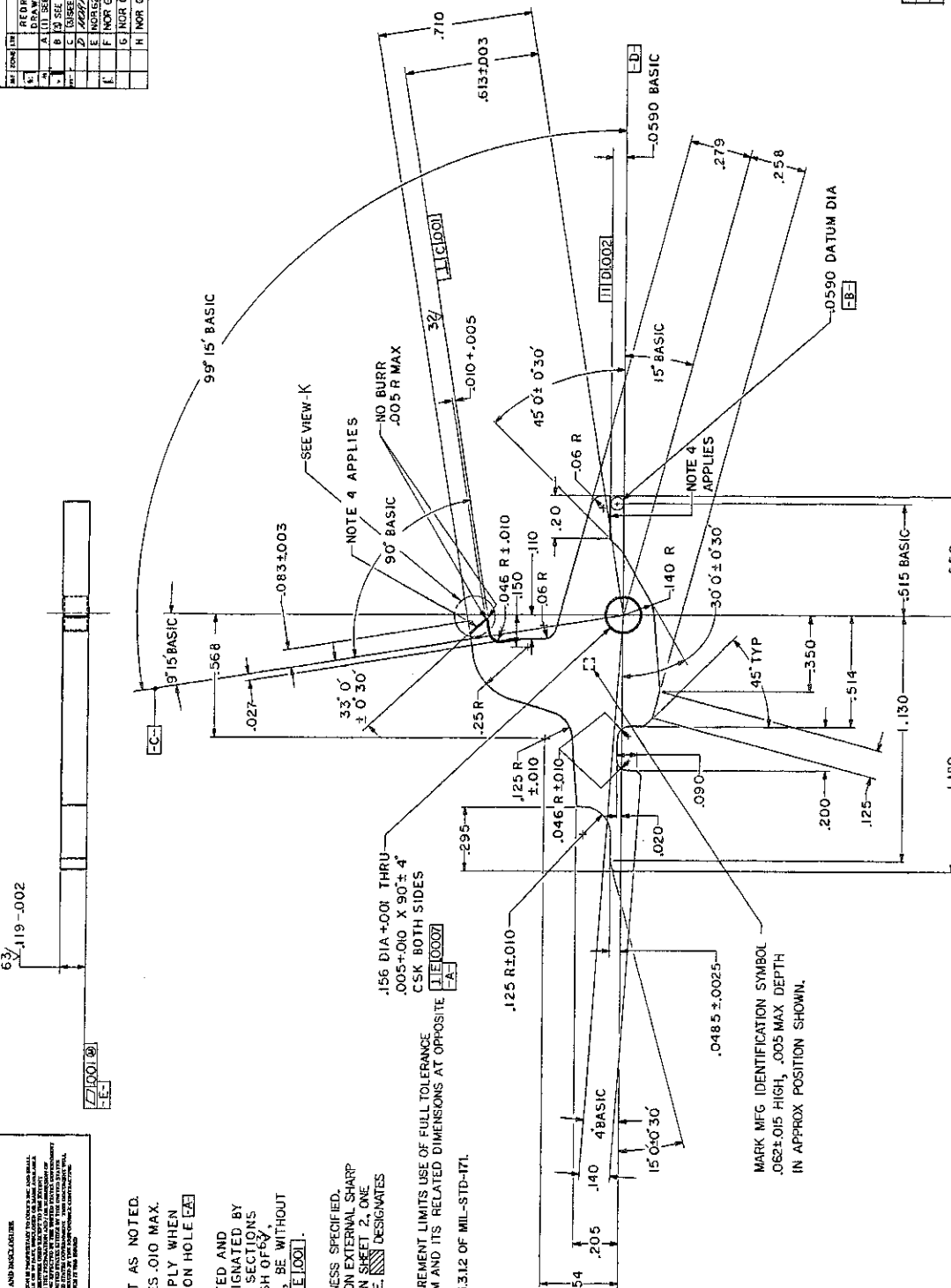
SECTION A-A



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125/ EXCERPT & NOTES

5. HEAT TREATMENT: ANNEAL TEMPER TO HARDNESS SPECIFIED.
6. DIE ROLL PERMISSIBLE ON EXTERNAL SURFACES OF ROLL PERMISSIBLE ON EXTERNAL SURFACES, AS SHOWN ON SHEET 2, ONE SIDE ONLY, EITHER SIDE.  DESIGNATES DIE ROLL AREA.
7. MIL-W-38535 APPLIES.
8. J12 J13 J023 FLAT REQUIREMENT LIMITS US TO BAND ON THE DIO DIM AND ITS RELATED TOLERANCE EXTREMES.
9. PROTECTIVE FINISH: 5.312 OF MIL-STD-H



TIME	DATE	REVISIONS	DATE	APPROVED
		REDRAWN FROM 111'S	27 APR 70	
		ISSUE, DE63334 REV B	25 JUL 70	
A	11	SEE EO NOR 02877-B	25 JUL 70	
B	10	USE ED HQ 10624	26 MAR 70	
C	10	USE EBR HQ 20878	25 OCT 70	
D	10	USE EBR HQ 20878	25 OCT 70	
E	10	USE EBR HQ 20878	25 OCT 70	
F	10	USE EBR HQ 20878	25 OCT 70	
G	10	USE EBR HQ 20878	25 OCT 70	
H	10	USE EBR HQ 20878	25 OCT 70	
I	10	USE EBR HQ 20878	25 OCT 70	
J	10	USE EBR HQ 20878	25 OCT 70	
K	10	USE EBR HQ 20878	25 OCT 70	
L	10	USE EBR HQ 20878	25 OCT 70	
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U	10	USE EBR HQ 20878	25 OCT 70	
V	10	USE EBR HQ 20878	25 OCT 70	
W	10	USE EBR HQ 20878	25 OCT 70	
X	10	USE EBR HQ 20878	25 OCT 70	
Y	10	USE EBR HQ 20878	25 OCT 70	
Z	10	USE EBR HQ 20878	25 OCT 70	

REV STATUS OF SHT'S	
SH 1	SH 2

CURRENT DESIGN ACTIVITY CASE CODE 10200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

PICATUNNY AREA, NEW JERSEY 07904-3000

U S ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
BUTLER, NEW JERSEY 07001

ROCK ISLAND, ILLINOIS, 61201

DISCONNECT

DATE CODE MARKED AND	QUANTITY NO
F 19204	8448635

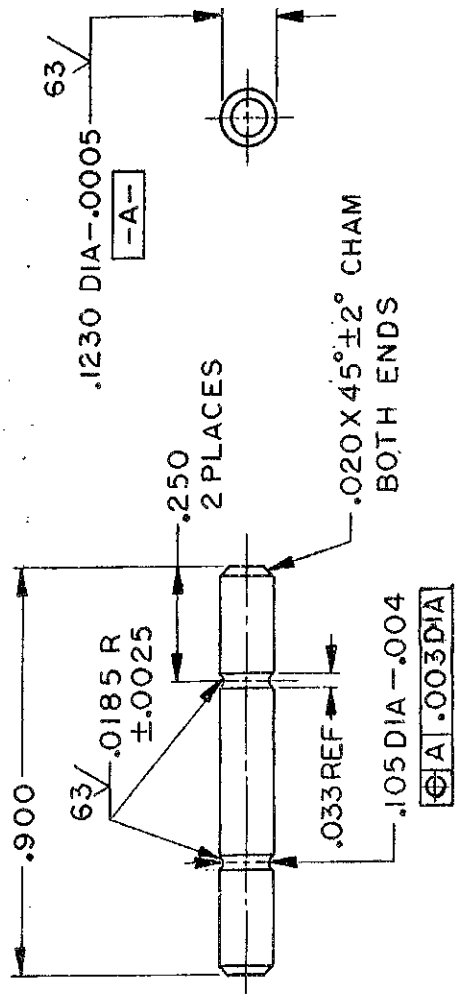
SCALE	5/1	SNAKE	1 or 2
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NOTES:

1. FINISH $\sqrt{125}$ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 MAX.
3. FINISH 5.3-1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH (A) AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES. (A)

REVISIONS			DATE	APPROVED
MF	ZONE	LTR		
			27 APR 70	
		REDRAWN FROM COLT'S DRAWING B61615 REVISION B		
		A (4) SEE ERR HQ R 20778	6 OCT 72	ORC
		B NOR W952009 80-02-13	80-05-16	ORC
		C NOR G853003/880229	880926	ORC
		D NOR G152018/ 91 07 08	91-10-11	ORC
		E NOR G253059 920716 (ECP G253060 920630)	92-08-11	ORC



CURRENT DESIGN ACTIVITY CODE 13200
U.S. ARMY
ARMAMENT RESEARCH DEVELOPMENT CENTER
FORT MONMOUTH, NEW JERSEY 07806-5000

DISTRIBUTION STATEMENT B FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY: 92-46-22.

MECHANICAL PROPERTIES		APPLICATION	
YS MIN		9390011	M4
YS MAX		F8448604	M16
EL2		F8448578	M16A1
RA			
BH			
RM	15N 72.5-75		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
TOLERANCES:		DATE 27 APR 1970	
3 PLACE DECIMALS ± .005		PREP	
2 PLACE DECIMALS ± .005		CHK	
1 PLACE DECIMALS ± .005		ENGR	
MATERIAL		SUBMITTED	
WIRE, STEEL, CMPSN 4130, OR 4140, ASTM A331		APPROVED	
FINAL PROTECTIVE FINISH		R.D. Henry	

DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		PIN, AUTOMATIC SEAR	
SIZE		DRAWING NO.	
B 19204		8448599	
SCALE		SHEET 1 OF 1	
4/1		CDI	

5

4

3

2

1

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NOTES:

1. MIL-W-13855 APPLIES.

TRIGGER-8448591

FLARED END OF SPRING

SEE VIEW A

VIEW A

SCALE-NONE

TRIGGER-8448591

SPRING, DISCONNECT- 8448594

SPRING, TRIGGER- 8448593

MF

ZONE

LTR

REVISIONS

DESCRIPTION

DATE

APPROVED

1

REDRAWN FROM COLT'S DRAWING

B62157, REV B

27 APR 70

2

A

(1) SEE EO HRD 02275

15 OCT 70

3

B

(4) SEE ERR HQR 20778

6 OCT 72

4

C

NORW250026 / 82-05-21

83-02-03

SEE PL-8448591

TRIGGER ASSEMBLY

CONTRACT NO

DATE

PREP

CHK

ENGR

SUBMITTED

APPROVED

27 APR 1970

27 APR 1970

27 APR 1970

27 APR 1970

27 APR 1970

27 APR 1970

UNLESS OTHERWISE SPECIFIED

TOLERANCES ARE IN INCHES

ANGLES

3 PLACE DECIMALS

2 PLACE DECIMALS

MATERIAL

F8448604

M16

F8448578

M16A1

MECHANICAL PROPERTIES

YS

MIN

YS

MAX

EL2

RA

BH

RH

APPLICATION

USED ON

NEXT ASSY

DEPT OF THE ARMY

U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201

DOVER, NEW JERSEY 07801

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

SIZE

CODE IDENT NO.

DRAWING NO.

SCALE

SHEET

OF

B

19204

8448591

2/1

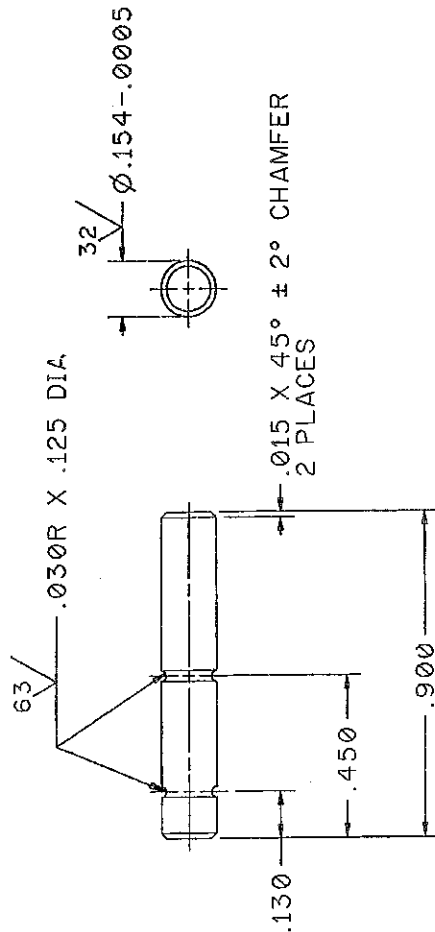
1

CDI

AMSWE Form 403B, 29 Jul 69

October 13, 2004 3:15 PM

6. MATERIAL: COLD FINISHED ALLOY STEEL BAR, GRADE 4130 OR 4140, ASTM A331, COLD HEADING QUALITY.



THIS DRAWING HAS BEEN GENERATED
ON A CAD SYSTEM LOCATED AT ARDEC,
BLOG. 5, PICATINNY ARSENAL, N.J.
CHANGES MUST BE INCORPORATED
W/ THIS SYSTEM.

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CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING C
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8448609

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
ROCK ISLAND ILLINOIS, 61201

PIN, HAMMER & TRIGGER

SIZE	CAGE CODE	8448609
C	19204	

SCALE	4/1	UNIT WT.
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APPROVAL
R. S. HENRY

CADD\$ REV A 634

ASSIGNED	APPLICATION
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3H	REV: 20 2 20
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DISTRIBUTION STATEMENT F: FURTHER DISTRIBUTION
ONLY AS DIRECTED BY ASOHC-AR OR HIGHER DOD
AUTHORITY: 92-06-22.

SMCAR FORM 67. 1 DEC 87(TEMP). REPLACES SMCAR FORM 67. 1 MAR 87(TEMP). WHICH MAY BE USED UNTIL EXHAUSTED

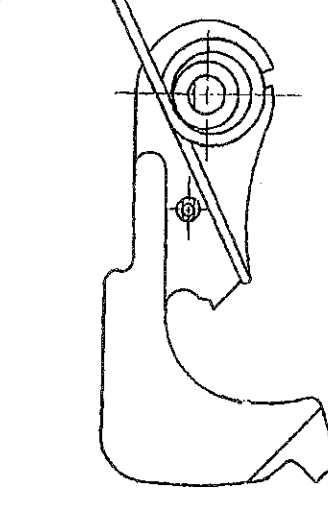
CC

5		4		3		2		1																
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MECHANICAL PROPERTIES <table border="1"> <tr> <td>YS</td> <td>MIN</td> <td></td> </tr> <tr> <td>YS</td> <td>MAX</td> <td></td> </tr> <tr> <td>ELZ</td> <td>RA</td> <td></td> </tr> <tr> <td>BH</td> <td></td> <td></td> </tr> <tr> <td>RH</td> <td></td> <td></td> </tr> </table>										YS	MIN		YS	MAX		ELZ	RA		BH			RH		
YS	MIN																							
YS	MAX																							
ELZ	RA																							
BH																								
RH																								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± 3 PLACE DECIMALS ± 2 PLACE DECIMALS ± MATERIAL																								
CONTRACT NO. DATE 27 APR 1970 PREP 9521 9.9.84 CHK 9521 9.9.84 ENGR 9521 9.9.84 SUBMITTED 9521 9.9.84 APPROVED 9521 9.9.84																								
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201																								
HAMMER ASSY																								
SIZE CODE IDENT NO. DRAWING NO. B 19204 8448610																								
SCALE 2/1 SHEET 2/1 OF 2																								

NOTES:

1. MIL-W-13855 APPLIES. (A)

SPRING, HAMMER - 8448611 (A)



HAMMER AND HAMMER PIN RETAINER ASSY - 8448612 (A)

(A) SEE PL-8448610

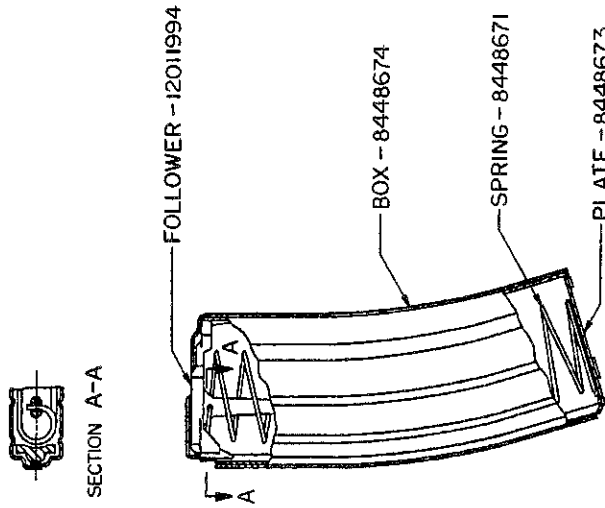
DRAWING SIZE D 8 7 6 5 4 3 2 1

NOTICE: INSTRUCTIONS AS TO USE AND DISPOSITION.

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NOTES:

- MIL-W-13855 APPLIES.
- SPRING FORCE WITH FOLLOWER DEPRESSED .250 INCH SHALL 3.0 LBS.±.5 LB.
- EACH MAGAZINE ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING A 30 ROUND FUNCTION FIRING TEST WITHOUT MALFUNCTIONING IN THE FOLLOWING WEAPONS:
A - M16A2 (9349000), M16A1 (8448500), M16 (8448600) OR M4 CARBINE (9390000) UTILIZING THE BOLT CATCH CONFIGURATION OF DRAWING D8448628 REV A OR LATER.
B - M231 FPW (9327045) UTILIZING THE CONFIGURATION OF DRAWING D9327059 AND USING M193 BALL AMMUNITION.
AFTER FIRING THE 30TH ROUND FROM THE MAGAZINE, THE MAGAZINE FOLLOWER SHALL ACTUATE THE WEAPON BOLT CATCH TO HOLD THE BOLT IN THE OPEN POSITION.



SECTION A-A

FOLLOWER - 12011994

BOX - 8448674

SPRING - 8448671

PLATE - 8448673

REVISIONS

ZONE	DATE	DESCRIPTION	APPROVED
K	NOR 950524	950524	RLV

CONTRACT NUMBER: 8448670

CONTRACTOR: ROCK ISLAND ARSENAL

DESIGNER: R. S. HENRY

DATE: 950524

SCALE: 1/1

PART NO. 8448670

SECTION ACTIVITY: ROCK ISLAND ARSENAL

MAGAZINE ASSY, 30 ROUND

DATE: 950524

SCALE: 1/1

DESIGNER: R. S. HENRY

DATE: 950524

SCALE: 1/1

October 13, 2004 2:48 PM

4

3

2

1

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REVISIONS			DATE	APPROVED
MF	ZONE	DESCRIPTION		
1	2	REDRAWN FROM COLT'S DRAWING C62273 REV A	27 APR 70	
A		SEE ERR HQR 20778	6 OCT 72	ORE
B		NORW250020	82-06-09	83 02 03 LAH/1/1
C		NOR W25 0026	82-05-21	8309 22 POC/1/1

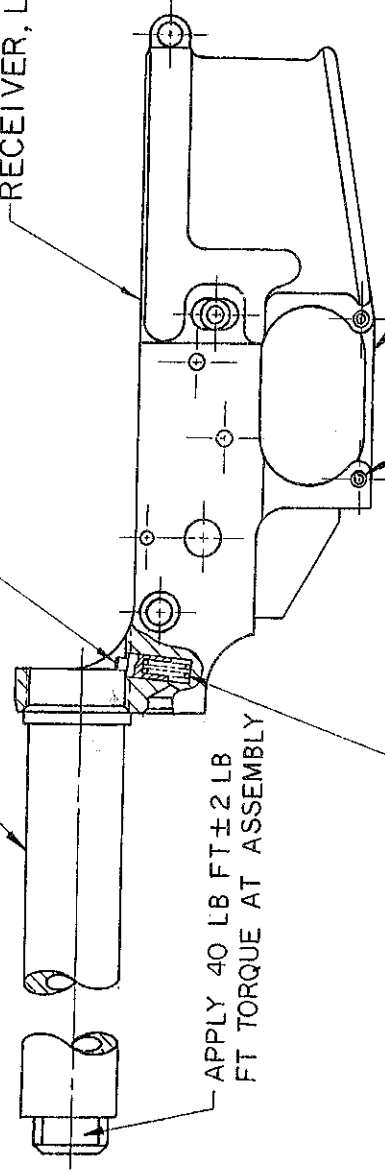
NOTES:

1. MIL-W-13855 APPLIES. (A)

EXTENSION, RECEIVER - 8448581

RETAINER, BUFFER - 8448582

RECEIVER, LOWER - 8448580



SPRING, BUFFER RETAINER - 8448583

TRIGGER, GUARD ASSY - 8448587

PIN, SPRING - MSI6562-I29
DRIVE FLUSH WITH RECEIVER

CURRENT DESIGN ACTIVITY

SEE PL-8448579

MECHANICAL PROPERTIES	
YS	
MIN	
YS	
MAX	
EL2	
RA	
BH	
RM	

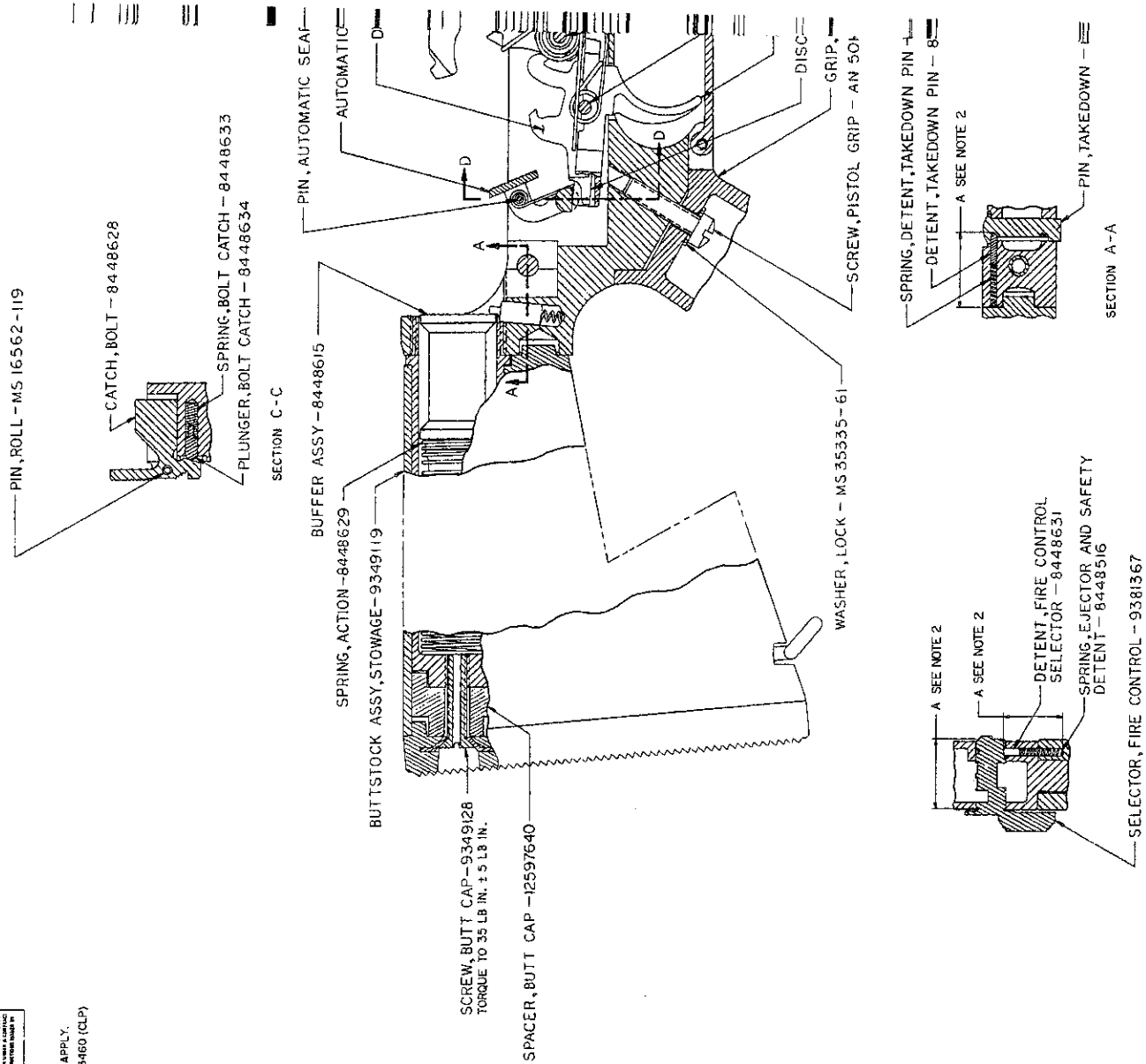
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES:
3 PLACE DECIMALS ± ---
2 PLACE DECIMALS ± ---

DATE	27 APR 1970
PREPARED	BAR
CHECKED	DDY
ENGINEER	DDY
SUBMITTED	DDY
APPROVED	P. J. Henry

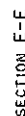
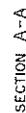
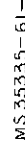
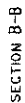
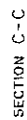
CONTRACT NO.	
U.S. ARMY WEAPONS COMMAND	
ROCK ISLAND, ILLINOIS, 61201	
LOWER RECEIVER AND RECEIVER EXTENSION ASSEMBLY	
SIZE	C
CODE IDENT NO.	19204
DRAWING NO.	8448579
SCALE	1/1
SHEET	1 OF 1

1- SPEC. MIL-W-15855 AND ANSI Y14.5-73 APPLY.
 2- APPLY MIL-L-46000 (LSA) OR MIL-L-63460 (CLP)
 AT ASSEMBLY OVER A.

NOTES:
 1- SPEC. MIL-W-15855 AND ANSI Y14.5-73 APPLY.
 2- APPLY MIL-L-46000 (LSA) OR MIL-L-63460 (CLP)
 AT ASSEMBLY OVER A.



SECTION D-D



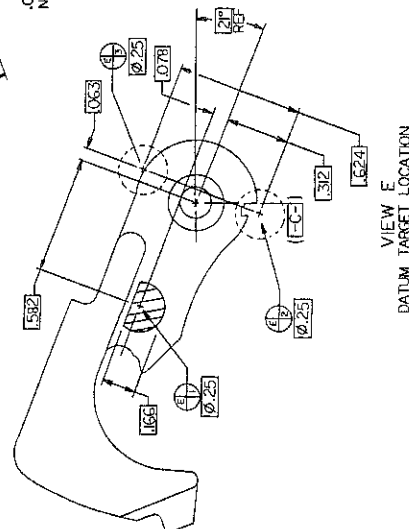
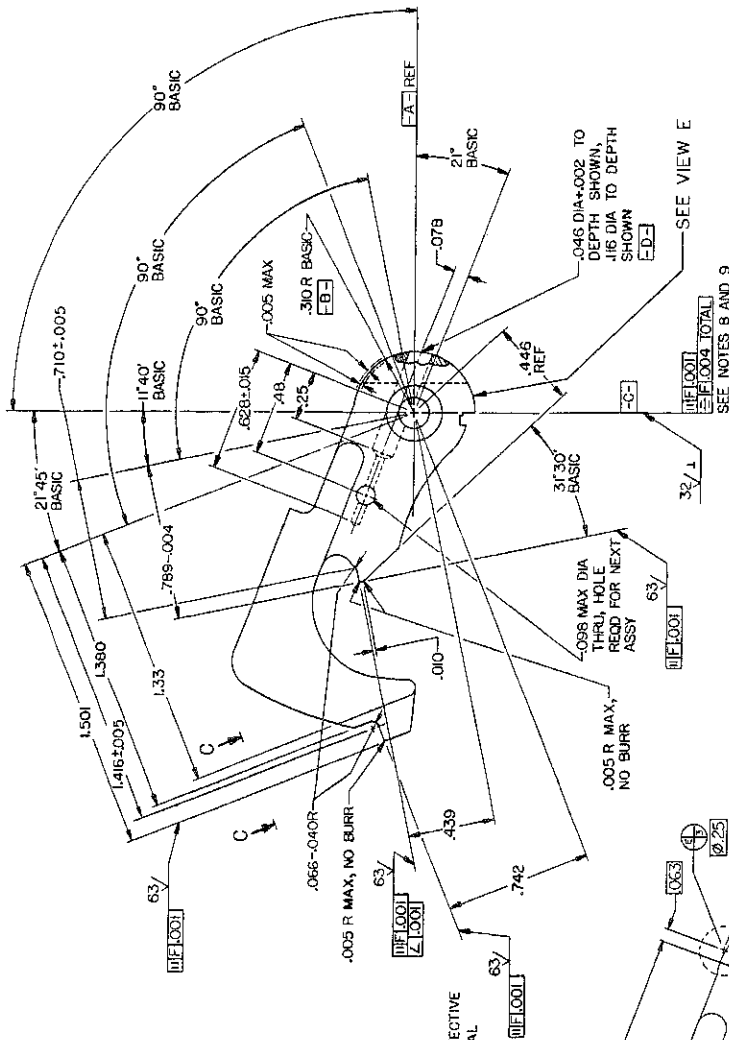
1518	DESCRIPTION	DATE	APPROVAL
-	PROHIBITION ON RELEASE [FBI/MS/DOJ]	8/20/04	W. G. S.
A	NOR W/250000 83-06-09	8-02-03	W. G. S.
B	NOR/MS/3448/283/1-15	8-02-07	W. G. S.
C	NOR/MS/203002/84-1-15	8-02-07	W. G. S.
D	NOR 6759432 830722	8-01-18	W. G. S.
E	NOR W/535004/BB00215	8-01-18	W. G. S.
F	NOR 6353008/85808	9-00-04	W. G. S.
G	NOR 6653817 / 960718	9-02-04	W. G. S.

[illegible]

[illegible]

1. STEEL, INVESTMENT CASTING, CMPSN IC 4620 OR IC 8620, SPEC MIL-S-22141, EXCEPT THAT MANGANESE CONTENT SHALL BE

2. ALL DIMENSIONS ARE BEFORE FINAL PROTECTIVE FINISH EXCEPT THOSE DEFINING
3. FILLET RADI .0026+0.00 UNLESS OTHERWISE SPECIFIED.
4. EXAGE RADII .005 TO .036 UNLESS OTHERWISE SPECIFIED.
5. FA ESTABLISHED BY FF AND .9140 DATUM DIMENSION.
6. CLASSIFICATION AND INSPECTION OF CASTING TO BE IN ACCORDANCE WITH MIL-STD-275, CLASS 2, GRADE A.
7. CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .014+0.004.
8. .009 MIN CASE DEPTH REQUIRED IF SURFACE IS MACHINED AFTER HEAT TREATMENT.
9. NO FINAL PROTECTIVE FINISH IN THIS AREA. COAT WITH LUBRICATING OIL PER MIL-L-46000 OR MIL-L-63460.
10. Q. FINISH 125/ EXCEPT AS NOTED. C
11. BREAK ALL SHARP EDGES PRODUCED BY MACHINING .005+0.00 UNLESS OTHERWISE SPECIFIED.
12. ALL FILLET RADII PRODUCED BY MACHINING .003+0.02 UNLESS OTHERWISE SPECIFIED.
13. PARTING LINE .005 MAX MISMATCH.
14. MIL-W-13855 APPLIES.
15. GRIND ES AFTER HEAT TREAT AND FINAL PROTECTIVE FINISH. DIRECTION OF GRIND ZZ FF MAY METAL REMOVED BY GRINDING 0.005.



NO	CODE	DESCRIPTION	DATE	AMOUNT
B		REPLACES REV IN W/CHANGE	20 FEB 1978	10.00
C		NO INR-POSS	0 OCT 72	800
D		41 SEI 200BZ - 82-05-21	30 OCT 72	800
E		41 SEI 200BZ - 82-11-21	30 OCT 72	800
F		41 SEI 200BZ - 82-11-21	30 OCT 72	800
G		41 SEI 200BZ - 82-11-21	30 OCT 72	800
H		41 SEI 200BZ - 82-11-21	30 OCT 72	800
I		41 SEI 200BZ - 82-11-21	30 OCT 72	800
J		41 SEI 200BZ - 82-11-21	30 OCT 72	800
K		41 SEI 200BZ - 82-11-21	30 OCT 72	800
L		41 SEI 200BZ - 82-11-21	30 OCT 72	800
M		41 SEI 200BZ - 82-11-21	30 OCT 72	800
N		41 SEI 200BZ - 82-11-21	30 OCT 72	800
O		41 SEI 200BZ - 82-11-21	30 OCT 72	800
P		41 SEI 200BZ - 82-11-21	30 OCT 72	800
Q		41 SEI 200BZ - 82-11-21	30 OCT 72	800
R		41 SEI 200BZ - 82-11-21	30 OCT 72	800
S		41 SEI 200BZ - 82-11-21	30 OCT 72	800
T		41 SEI 200BZ - 82-11-21	30 OCT 72	800
U		41 SEI 200BZ - 82-11-21	30 OCT 72	800
V		41 SEI 200BZ - 82-11-21	30 OCT 72	800
W		41 SEI 200BZ - 82-11-21	30 OCT 72	800
X		41 SEI 200BZ - 82-11-21	30 OCT 72	800
Y		41 SEI 200BZ - 82-11-21	30 OCT 72	800
Z		41 SEI 200BZ - 82-11-21	30 OCT 72	800

[illegible]

REV STATUS OF SHT'S	
SH 1	SH 2
K	J

DATUM	TARGET	LOCATION	VIEW E
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

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1. WIRE, STEEL, CARBON, SPRING, MUSIC, SPEC ASTM-A228. TENSILE STRENGTH SHALL BE 376,000 MIN.	WIRE DIAMETER _____ COIL DIAMETER (QD) _____ FREE LENGTH AFTER SETTING _____ TOTAL COILS _____ DIRECTION OF HELIX _____ LOAD AT COMPRESSED LENGTH OF .850 _____ LOAD AT COMPRESSED LENGTH OF .784 _____ SPRING RATE _____ SOLID LENGTH _____ TYPE OF ENDS _____ MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572	0240 ±.0003 103 ±.003 926 REF 27 REF OPTIONAL 2.94 LB ±.30LB 5.50 LB ±.25LB 650 MAX SQUARED, GROUND
2. STRESS RELIEVE AFTER FORMING. HOLD AT 475°F ± 25° FOR 30 MINUTES.		
3. SET SPRING 3 TIMES AFTER STRESS RELIEF.		
4. MIL-W-13855 APPLIES.		
5. BREAK SHARP EDGES .003 ±.012.		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:
ANGLES ± _____
3 PLACE DECIMALS ± .005
2 PLACE DECIMALS ± _____
MATERIAL _____

SEE NOTE 1

FINAL PROTECTIVE FINISH _____

ROCK ISLAND ARSENAL, ROCK ISLAND, ILL 61201		SPRING, EJECTOR AND SAFETY DETENT		SIZE	CODE IDENT NO.	DRAWING NO.	SCALE	NONE	SHEET	OF
				B	19204	8448516				

SCANNED DUPLICATE ORIGINAL

[illegible]

I. STEEL, CMPSN 4037, SPEC
ASTM A322.

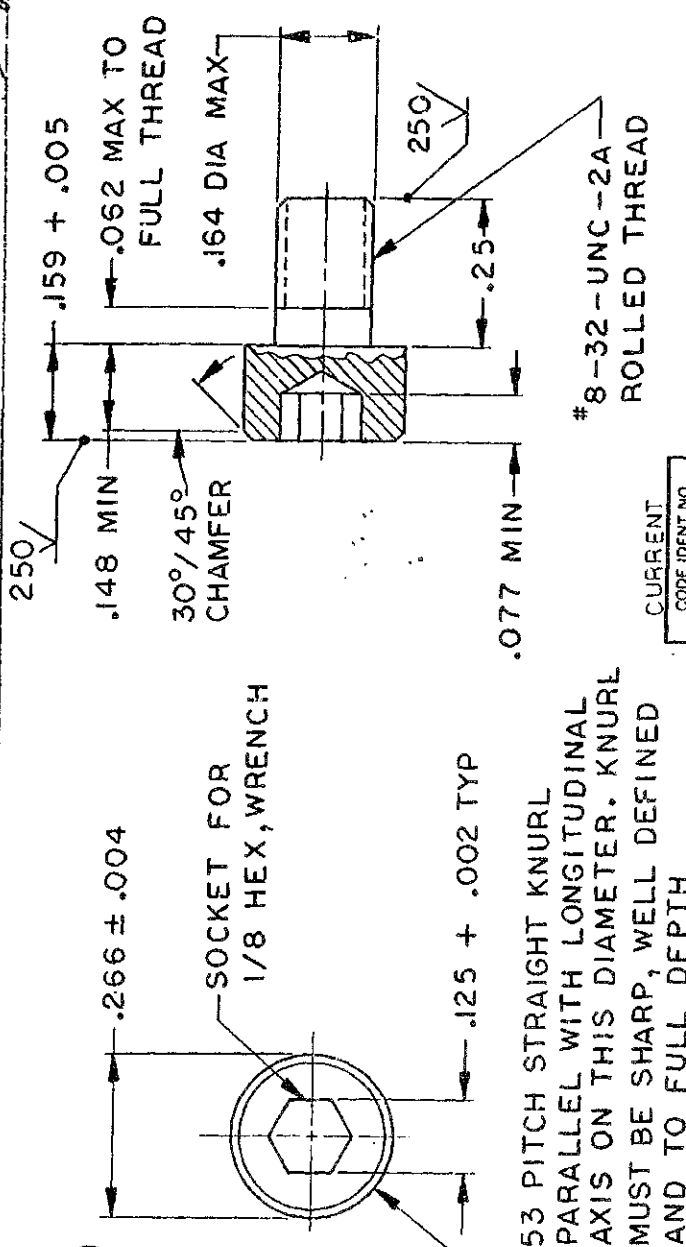
2. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.

3. FINISH ^{125/}EXCEPT AS NOTED.

4. BREAK ALL SHARP ED
.005+.005.

5. FINISH 5.3.1.2 OF MIL-STD-171.

6. MIL-W-13855 APPLIES. (A)



**DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASO NC-AR OR HIGHER DOD AUTHORITY: 92-16-22**

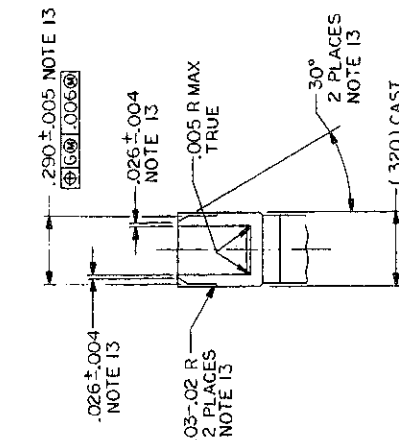
MECHANICAL PROPERTIES				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO		DATE		27 APR 1970	
YS				TOLERANCES:		PREP		CHK		GR	
MIN				ANGLES:		M4		M16		M16A1	
YS				3 PLACE DECIMALS ±.005		M4		M16		M16A1	
MAX				2 PLACE DECIMALS ±.01		M4		M16		M16A1	
EL2				MATERIAL		M4		M16		M16A1	
RA				SEE NOTE 1		M4		M16		M16A1	
BH				SEE NOTE 1		M4		M16		M16A1	
PH	15N 78.5-83			FINAL PROTECTIVE FINISH		M4		M16		M16A1	
APPLICATION		NEXT ASSY		USED ON		M4		M16		M16A1	

AMSWF Form 403B, 29 Jul 69

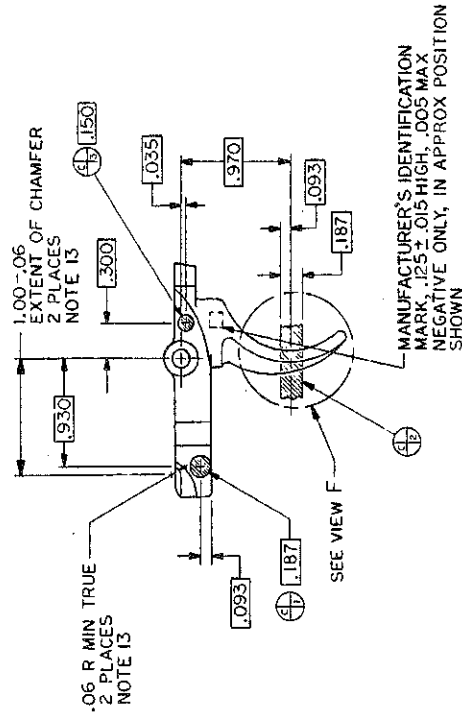
NOTE: REQUESTED AS TO THE NEW INSURANCE

NOTICE: RESTRICTED ACCESS AND CONTACT DURING

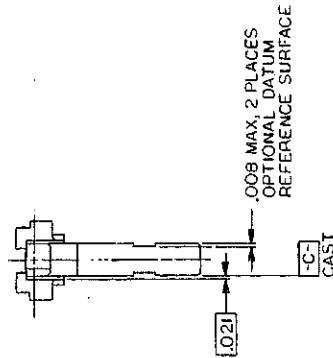
3	4 - FURTHER	5 - DATE	6 - APPROVAL
	PRODUCTION RELEASE	8/50/29	
	ERRWAS0028 / 84-10-16		
A	NOR W5530028 / 85-07-23 (ECP W6530029 / 86-05-21)	860724	6
F	NOR G2530059 / 92-07-16 (ECP G3530060 / 92-06-30)	920811	AJL
G	NOR G3530080 92-09-03	931101	H-2
H	NOR G4530090 94-02-04	940523	2



VIEW E
SCALE 4/1



MAJIA



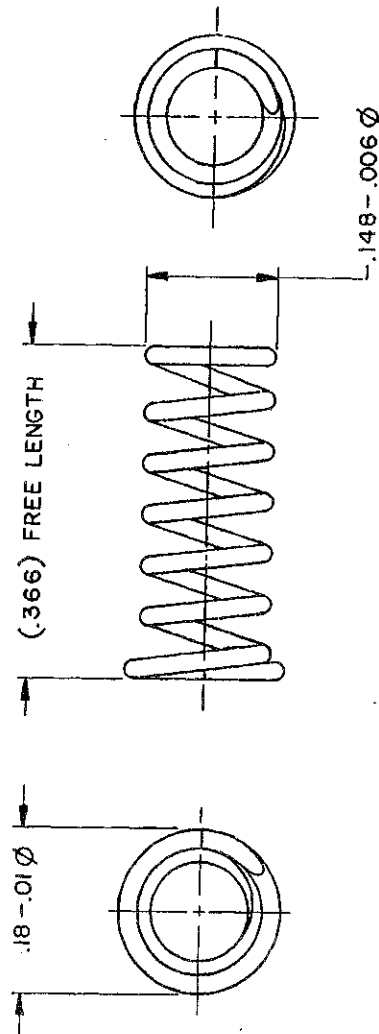
DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY: 92-06-22.

PART NO. 9390736		UNCLASS. DATE OF DECLASS. 85-02-04		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED		U.S. ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER DURHAM, NEW JERSEY 05801	
9392518		17		17		DRAWING NO. 9390736	
REPT. ASSY		18		18		DRAWING NO. 9390736	
MIL A2		19		19		DRAWING NO. 9390736	
USED ON		20		20		DRAWING NO. 9390736	
APPLICATION		21		21		DRAWING NO. 9390736	
TRIGGER		22		22		DRAWING NO. 9390736	
FSCM NO. 19200		23		23		DRAWING NO. 9390736	
SCALE 2:1		24		24		DRAWING NO. 9390736	
SHEET 2 OF 2		25		25		DRAWING NO. 9390736	

[illegible]

NOTES: -

- 1—SPEC MIL-W-13855 AND ANSI Y14.5-73
APPLY.
- 2—MATERIAL :
WIRE, STAINLESS STEEL, TYPE 631 (17-7PH),
COLD DRAWN, ASTM-A313.
- 3—WIRE DIAMETER :— .0200 $\pm$.0005 .
- 4—DIRECTION OF HELIX :— OPTIONAL .
- 5—TOTAL NO. OF COILS :— (7.5)
- 6—LOAD AT COMPRESSED LENGTH OF
.263 :— 2.1 LBS $\pm$.2 LBS .
- 7—MAX. SOLID HEIGHT :— .154 .
- 8—BREAK SHARP EDGES .003 $\pm$.012 .
- 9—FINISH :^{125/}✓ ALL SURFACES .
- 10—MANUFACTURE IN ACCORDANCE WITH
TYPE I, GRADE B, MIL-S-13572,
EXCEPT PARAGRAPH 4.4.4.1 SHALL
NOT APPLY.
- 11—PRECIPITATION HEAT TREAT AFTER
FORMING. HOLD AT 900°F $\pm$ 10°F FOR
ONE HOUR, AIR COOL .
- 12—HARDNESS EQUIV TO ROCKWELL C 48 MIN .
- 13—TYPE OF ENDS :— ONE CLOSED AND GROUNDED,
ONE CLOSED, FLARED
GROUND .
- 14—PROTECTIVE FINISH :— 54.1 OF MIL-STD-883C
METHOD 2009, CONDITION A, CYCLE 1 .
- 15—SPRING REQUIREMENTS APPLY AFTER
COMPRESSING TO SOLID LENGTH .
- 16—FOR ASSEMBLY OF DISCONNECT SPRINGS TO
KEY AND SPRING INSERT TOOL DRAWING NO. 100-100-001
SIMILAR DEVICE .



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
~	PRODUCTION RELEASE ERRW252013	820614	1/2/82-10/82
A	NOR W250011/82-04-13 (ECP W353120/83-07-07	83-11-04	[Signature]
B	NOR W25258/82-12-30	840904	[Signature]
C	NOR W45 0030/84-11-15	850402	[Signature]
D	NOR W55 2030/85-05-25	850731	[Signature]
E	NOR G053152/901002	910322	PF-82
F	NOR GIS2018 91 07 08	91-10-11	82
G	NOR GIS3138/911001	920205	84

[illegible]

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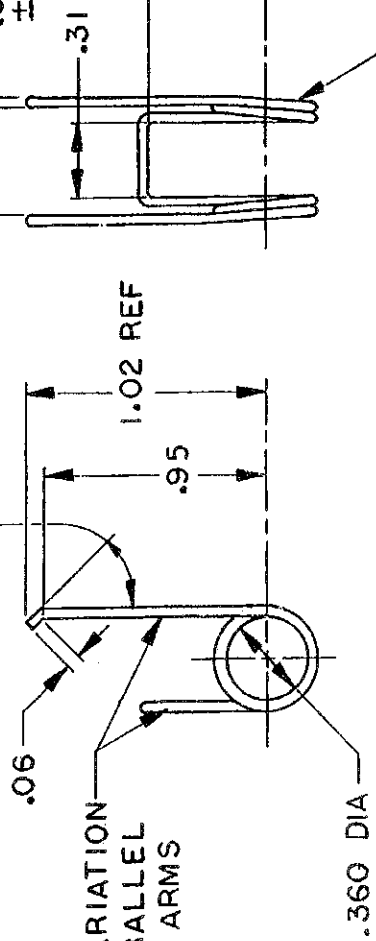
G NOR GIS2018 910708 91-10-11

REV	DATE	DESCRIPTION
1	27 APR 70	REDRAWN FROM COLT'S DRAWING
2	15 JULY 70	BS1657 REVISION B
3	20 FEB 71	A (1) SEE EO HRD 02197-3
4	6 OCT 72	B (3) SEE EO HQR 10639
5	80-05-16	C (2) SEE ERR HQR 20778
6	83-11-04	D NOR W952009 80-02-13
7	900815	E NOR W250011 / 82-04-13
8		F NOR W250034 / 82-07-15

NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900. HOLD AT 900°F ± 10° FOR 1 HOUR. AIR COOL.
3. TORQUE REQUIREMENT: 1.5 ± .27 LB IN TORQUE AT 45° DEFLECTION
4. FINISH 5.4.1 OF MIL-STD-171.
5. MIL-W-13855 APPLIES.

45° ± 3°



U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801
FSCM NO. 19200

MECHANICAL PROPERTIES	9390011	M4
YS	9349115	M16A2
MIN	F 9327230	M231
YS		M16
MAX		M16A1
EL2		
RA		
BH		
RH	15N 84.5 MIN	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES 3 PLACE DECIMALS ±.005
2 PLACE DECIMALS ±.01
MATERIAL
SEE NOTE 1
FINAL PROTECTIVE FINISH
SEE NOTE 4

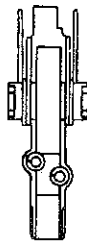
CONTRACT NO.	DATE	27 APR 1970
PREP	CHK	ENGR
SUBMITTED	APPROVED	

U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	SPRING, TRIGGER
SIZE CODE IDENT NO.	DRAWING NO.
B 19204	8448593
SCALE 2/1	SHEET 1 OF 1

the program. The program was developed by the National Aeronautics and Space Administration (NASA) and the National Science Foundation (NSF). The program was designed to provide a comprehensive overview of the state of the art in the field of artificial intelligence (AI) and its applications. The program was presented in a series of lectures and seminars, which were held in the United States and abroad. The program was highly successful, and it provided a valuable opportunity for researchers and students to learn about the latest developments in AI.

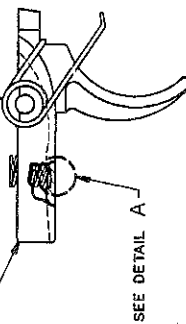
NOTES: —

1 - SPEC. MIL-W-13855 AND ANSI Y14.5 - 73 APPLY.



TRIGGER SUBASSEMBLY
9392518

-SPRING, TRIGGER-8448593



SEE DETAIL A.



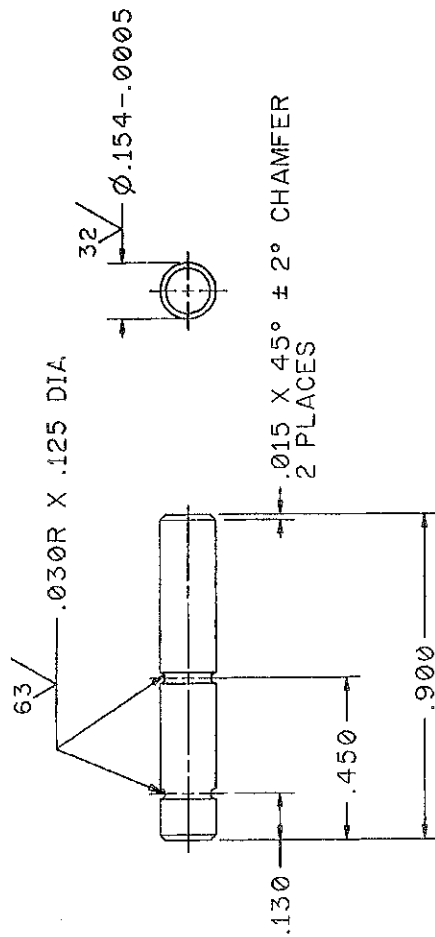
FLARED END OF SPRING

DETAIL A
2 PLACES
SCALE: 10/1

[illegible]

NOTE:

1. FINISHED ¹²⁵✓ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 MAX.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.
6. MATERIAL: COLD FINISHED ALLOY STEEL BAR, GRADE 4130 OR 4140, ASTM A331, COLD HEADING QUALITY.



THIS DRAWING HAS BEEN GENERATED
ON A CAD SYSTEM LOCATED AT ARDEC,
BUDG. 6, PISCATAWAY ARSENAL, N.J.
CHANGES MUST BE INCORPORATED
IN THIS SYSTEM.

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CURRENT DESIGN ACTIVITY CASE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PISCATAWAY ARSENAL, NEW JERSEY 07808-3900

PART NO. 8448609

PMIC	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NUMBER	DEPT OF THE ARMY US ARMY WEAPONS COMMAND ROCK ISLAND ILLINOIS, 61201
MECHANICAL PROPERTIES	TOLERANCES ON DIMENSIONS 2 PL ± 3 PL ± .005	CONTRACTOR	PIN, HAMMER & TRIGGER
YP	9390011	DRAWN BY	DATE (YR-MO-DAY) 700427
TS	F8448604	CHECKER	ENGINEER D. SMART
EL2	F8448578	DRAWING APPROVAL	F. P. GILHOOBY
RA		DESIGN APPROVAL	R. S. HENRY
BH		CADDS REV A 634	
RH	15N 72.5-76	APPLICATION	SCALE 4/1 UNIT WT.
DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASOHC-AR OR HIGHER DOD AUTHORITY: 92-86-22.		SIZE CASE CODE C 19204 8448609	

SMCAR FORM 67, 1 DEC 87(TEMP), REPLACES SMCAR FORM 67, 1 MAR 87(TEMP),
WHICH MAY BE USED UNTIL EXHAUSTED

NOTES: -

- 0.03 + .07 R - 1.56 + .002 R THRU

[illegible]

100

PART NO. 9349111

DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ARDC, SMCN-15TH, ROCK ISLAND, IL, ATOMC-AR, 91A02.

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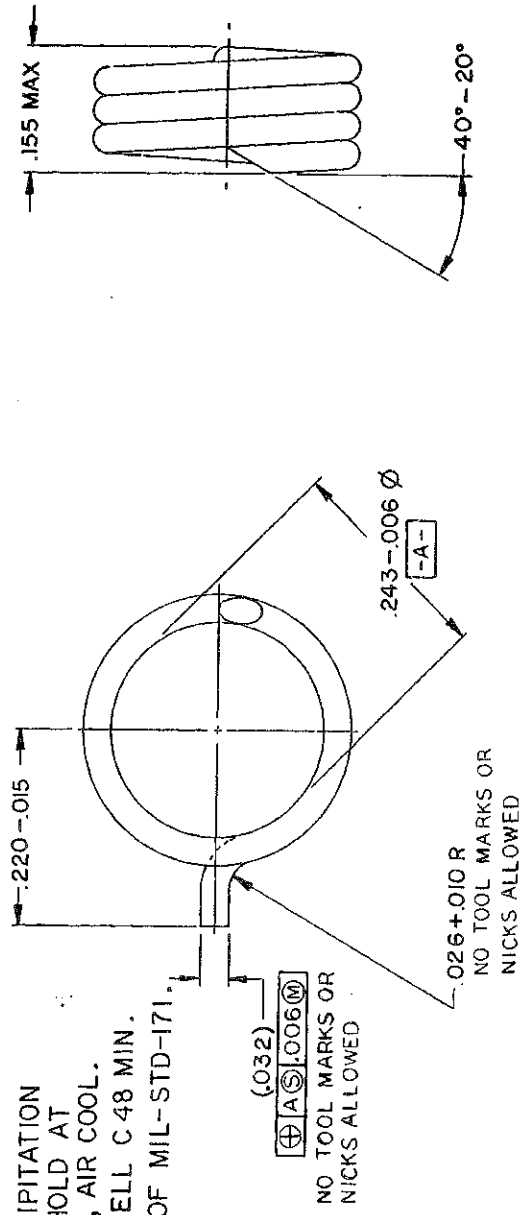
2 - COIN BOTH SIDES OF RETAINER (8448614), AFTER COINING RETAINER IS TO HAVE .010 MIN LONGITUDINAL MOVEMENT.



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NOTES :-

- 1- SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.
- 2- MATERIAL :- WIRE, STAINLESS STEEL, TYPE 316 (17-7PH), COLD DRAWN, ASTM A313.
- 3- WIRE DIAMETER - .032-.001
- 4- DIRECTION OF HELIX - RIGHT HAND.
- 5- TOTAL COILS - 3.5 REF.
- 6- PITCH - CLOSE WOUND.
- 7- BREAK SHARP EDGES .003+.012
- 8- FINISH $63\sqrt{}$ ALL SURFACES.
- 9- STRESS RELIEVE AND PRECIPITATION HARDEN AFTER FORMING. HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}\text{F}$ FOR ONE HOUR, AIR COOL.
- 10- HARDNESS EQUIV TO ROCKWELL C 48 MIN.
- 11- PROTECTIVE FINISH :- 5.4.1 OF MIL-STD-171.



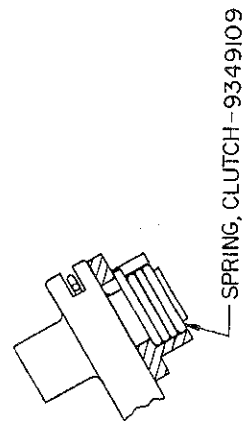
SYM	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE	820614	
A	ERR W252013	83-11-04	
B	NOR W250011/82-04-13 (ECP W353120/83-07-07)	83-11-04	
C	NOR W25258/82-12-30 (ECP W353151/83-11-14)	840504	
D	NOR W450030/84-11-15	850402	
E	NOR GIS2018	91-07-08	
F		91-10-11	

PART NO. 9349109

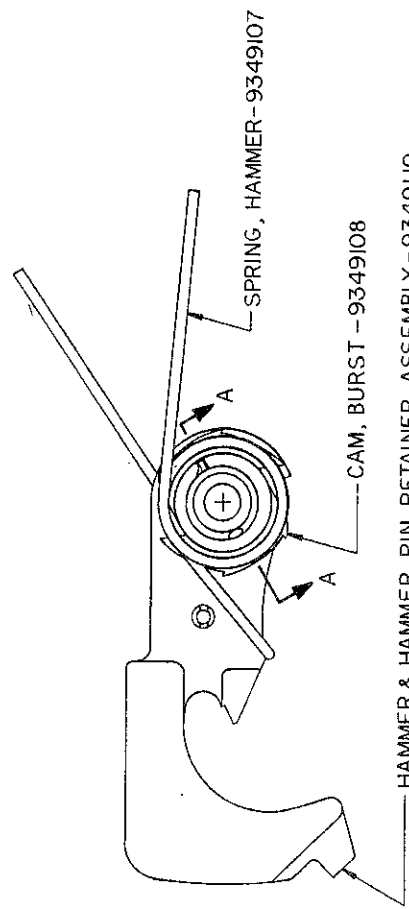
U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801	
ORIGINAL DATE OF DRAWING 82-02-26	
DRFTSMAN M M	CHECKER DEW
ENGR R-9	ENGR
ENGR	ENGR
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS ± FRACTIONS ± ANGLES ±	
MECHANICAL PROPERTIES	
YP	TS
EL	RA
BH	RH
9349109 M4	
9349106 M16A2	
NEXT ASSY	USED ON
APPLICATION	
SPRING, CLUTCH	
SIZE C	FSCM NO. 19200
9349109	
SCALE 10/1	UNIT WT.
SHEET 1 OF 1	

DRAWING SIZE D
14x22 INCHES 7x12 8

NOTES:
1- SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.



SECTION A-A
WITH (SPRING, HAMMER-9349107) REMOVED



SPRING, CLUTCH-9349109
SPRING, HAMMER-9349107
CAM, BURST-9349108
HAMMER & HAMMER PIN RETAINER ASSEMBLY-9349110

FOR ENGINEERING PARTS LIST SEE PL 9349106

PART NO. 9349106

MECHANICAL PROPERTIES		DO NOT SCALE DRAWING		ORIGINAL DATE OF DRAWING		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER	
UNLESS OTHERWISE SPECIFIED		92-02-26		92-02-26		ROVER, NEW JERSEY 07001	
DIMENSIONS ARE IN INCHES		DIMENSIONS ARE IN INCHES		DIMENSIONS ARE IN INCHES		DIMENSIONS ARE IN INCHES	
TOLERANCES ON DECIMALS		TOLERANCES ON DECIMALS		TOLERANCES ON DECIMALS		TOLERANCES ON DECIMALS	
FRACTIONS		FRACTIONS		FRACTIONS		FRACTIONS	
ANGLES		ANGLES		ANGLES		ANGLES	
9349100		MISCELLANEOUS		9349100		9349106	
PART ASSEMBLY		USED ON		USED ON		USED ON	
APPLICATION		APPLICATION		APPLICATION		APPLICATION	

1	PRODUCTION RELEASE	820614	14 JUL 82
	ERRWZ52013		
	NOB WPS 3258 703 12 30		167

14) 840904

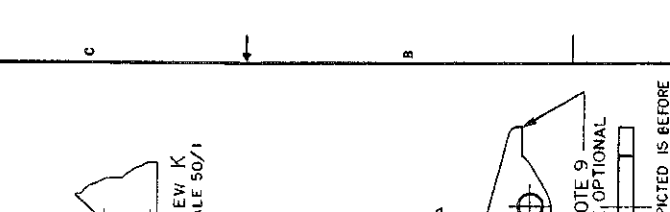
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D NOR 6053096/900702	34 p.25
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E	NOR GIS2018 / 910708	91-10-11
F	NOR GIS3136 911001	920205

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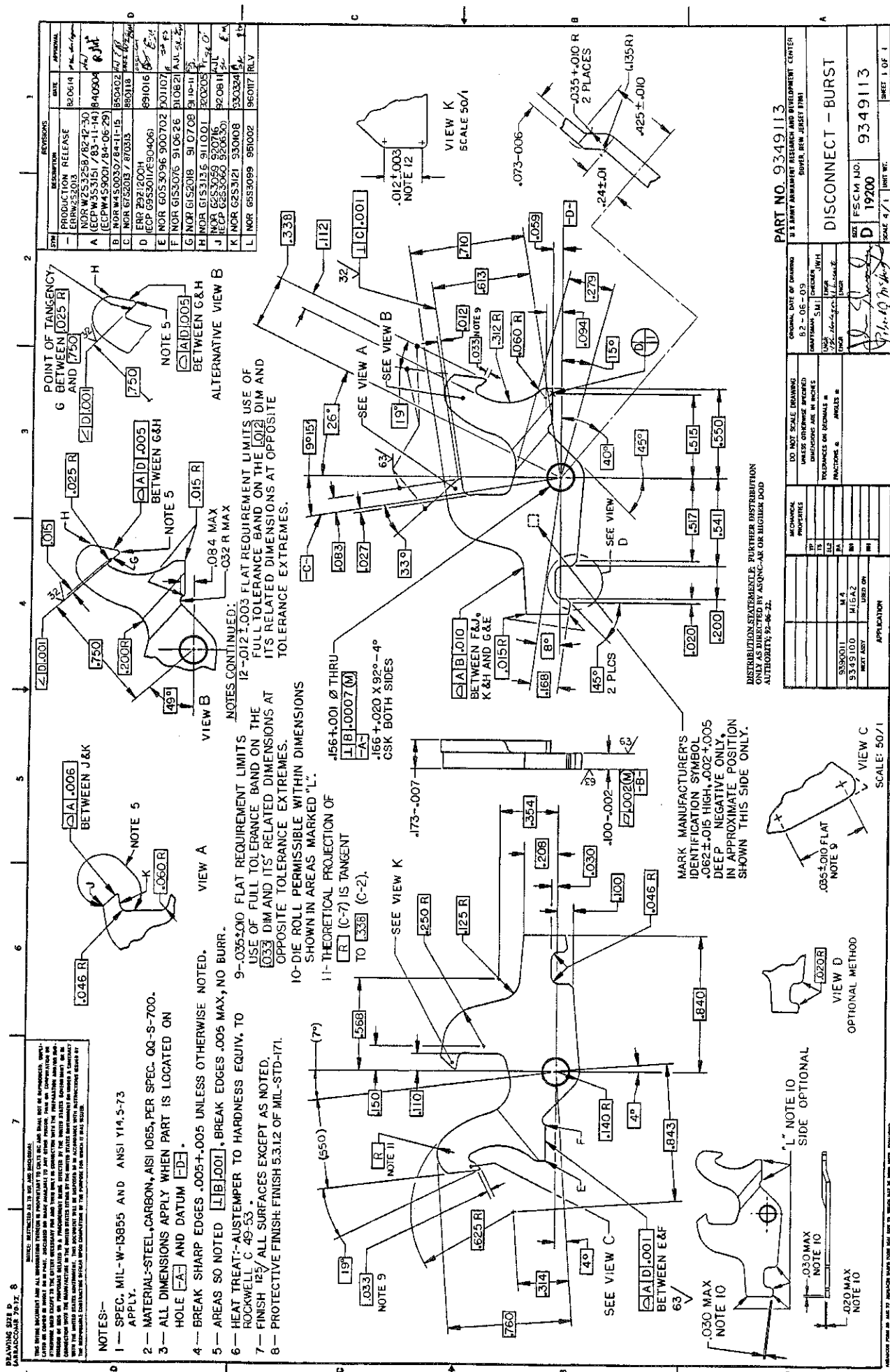
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VIEW
OPTIONAL N

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A



NOTES:-
1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73
2 - MATERIAL-STEEL, CARBON, AISI 1065, PER SPEC. QQ-S-700.
3 - ALL DIMENSIONS APPLY WHEN PART IS LOCATED ON
HOLE [A] AND DATUM [D].
4 - BREAK SHARP EDGES .005+-.005 UNLESS OTHERWISE NOTED.
5 - AREAS SO NOTED [B] [C] [D] [E] [F] [G] [H] [I] [J] [K] [L] BREAK EDGES .005 MAX, NO BURR.
6 - HEAT TREAT--AUSTEMPER TO HARDNESS EQUIV. TO
ROCKWELL C 49-53.
7 - FINISH 125/ ALL SURFACES EXCEPT AS NOTED.
8 - PROTECTIVE FINISH: FINISH 5.3.12 OF MIL-STD-171.

11- THEORETICAL PROJECTION OF
[R] (C-7) IS TANGENT
TO [336] (C-2).
12- DIE ROLL PERMISSIBLE WITHIN DIMENSIONS
SHOWN IN AREAS MARKED "L".
13- FULL TOLERANCE BAND ON THE
[033] DIM AND ITS RELATED DIMENSIONS AT
OPPOSITE TOLERANCE EXTREMES.
14- POINT OF TANGENCY
G BETWEEN [025] R
AND [750]
15- POINT OF TANGENCY
H BETWEEN [025] R
AND [750]
16- POINT OF TANGENCY
I BETWEEN [025] R
AND [750]
17- POINT OF TANGENCY
J BETWEEN [025] R
AND [750]
18- POINT OF TANGENCY
K BETWEEN [025] R
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19- POINT OF TANGENCY
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K BETWEEN [025] R
AND [750]
19- POINT OF TANGENCY
L BETWEEN [025] R
AND [750]

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

THIS DRAWING IS THE PROPERTY OF THE ARMY. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE ARMY. THE ARMY ASSUMES NO LIABILITY FOR THE RESULTS OF THE USE OF THIS DRAWING FOR PURPOSES OTHER THAN THOSE SPECIFIED IN THE CONTRACT. THE ARMY WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY, OR FOR ANY LOSS OF PROFITS, ARISING OUT OF THE USE OF THIS DRAWING FOR PURPOSES OTHER THAN THOSE SPECIFIED IN THE CONTRACT.

NOTES:

1. FINISH $125\sqrt{\text{EXCEPT AS NOTED.}}$
2. BREAK ALL SHARP EDGES .005 MAX.
3. FINISH 5.3-1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH (A) AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES. (A)

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

MECHANICAL PROPERTIES		APPLICATION	
YS MIN		9390011	M4
YS MAX		F8448604	M16
ELZ		F8448578	M16A1
RA			
BH			
RH	EN 725-76		

SEE NOTE 3

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES: ANGLES: 3 PLACE DECIMALS ±.005 2 PLACE DECIMALS ±.005

WIRE STEEL, CMPSN 4130, OR 4140, ASTM A331

FINAL PROTECTIVE FINISH

MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
22			REDRAWN FROM COLT'S DRAWING B61615 REVISION B	27 APR 70	
23			A 42 SEE ERR HQ R 20778	6 OCT 72	R.C.
24			B NOR W952009 80-02-13	80-05-16	DELIVER
25			C NOR G853003/880229	880925	DELIVER
26			D NOR G152018/91 07 08	91-10-11	IRR
27			E NOR G253059 920716 (ECP G253060 920630)	92-08-11	AJL

REVISIONS		DEPT OF THE ARMY	
		U.S. ARMY	
		ROCK ISLAND, ILLINOIS, 61201	
		PIN, AUTOMATIC SEAR	
		SIZE CODE IDENT NO DRAWING NO	
		B 19204 8448599	
		SCALE 4/1	
		SHEET 1 OF 1	

CURRENT DESIGN ACTIVITY CAN BE CODE 19200 U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PITCHBURY ARSENAL, NEW JERSEY 07806-5000

CONTRACT NO. DATE 27 APR 1970

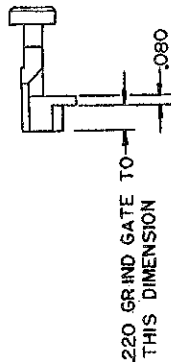
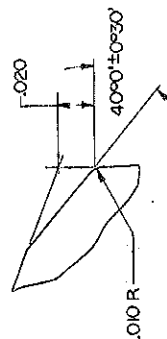
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APPROVED: [Signature]

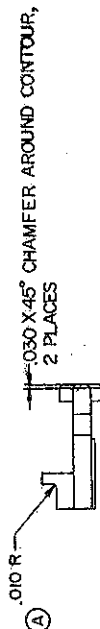
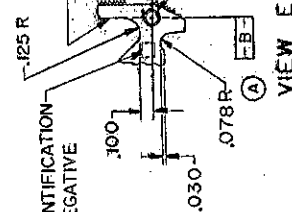
AMSW Form 403B, 29 Jul 69

THE ABOVE DOCUMENT AND ALL INFORMATION THEREIN IS FURNISHED TO COLLECT AND SMALL BUSINESS INFORMATION AND IS NOT TO BE USED FOR ANY OTHER PURPOSES, INCLUDING BUT NOT LIMITED TO, THE PRODUCTION OF A REPORT, THE CONDUCT OF A SURVEY, OR THE PREPARATION OF A STATISTICAL SUMMARY. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY OTHER PURPOSES, INCLUDING BUT NOT LIMITED TO, THE PRODUCTION OF A REPORT, THE CONDUCT OF A SURVEY, OR THE PREPARATION OF A STATISTICAL SUMMARY. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY OTHER PURPOSES, INCLUDING BUT NOT LIMITED TO, THE PRODUCTION OF A REPORT, THE CONDUCT OF A SURVEY, OR THE PREPARATION OF A STATISTICAL SUMMARY.

1. STEEL INVESTMENT CASTING, CMPSN IC8620, SPEC MIL-S-22141, EXCEPT THAT MANGANESE CONTENT SHALL BE 70 TO 120 %.
2. CLASSIFICATION AND INSPECTION OF CASTINGS SHALL BE IN ACCORDANCE WITH CLASS 3, GRADE A, SPEC MIL-STD-2175, EXCEPT CLASS 2, GRADE C IS PERMISSIBLE IN AREA F.
3. FINISH ¹²⁵ EXCEPT AS NOTED.
4. EJECTOR PIN MARKS .010 NEGATIVE MAX.
5. CARBURIZE TO PRODUCE A TOTAL CASE DEPTH OF .014 TO .016.
6. BREAK SHARP EDGES .005+/.010 UNLESS (A)
7. MIL-W-13855 APPLIES. (B)

[illegible]

Technical drawing of a mechanical part, likely a valve or plug, showing dimensions and callouts. The part is symmetrical about a vertical centerline. Key dimensions include a top radius of .125 R, a central hole diameter of .030, a central hole depth of .100, and a bottom radius of .078 R. The part is labeled with 'A' and 'B' in circles. Callouts include 'THIS SURFACE TO BE EITHER SIDE OF -B- .005 MAX' and '104 DIA+.003 THRU 90° CSK TO .13 DIA BOTH SIDES'. A note at the bottom states: 'MFG IDENT SYMBOL AND CAVITY IDENTIFICATION MARK .12 HIGH APPROX .005 MAX NEGATIVE ONLY IN APPROX POSITION SHOWN'.

[illegible]

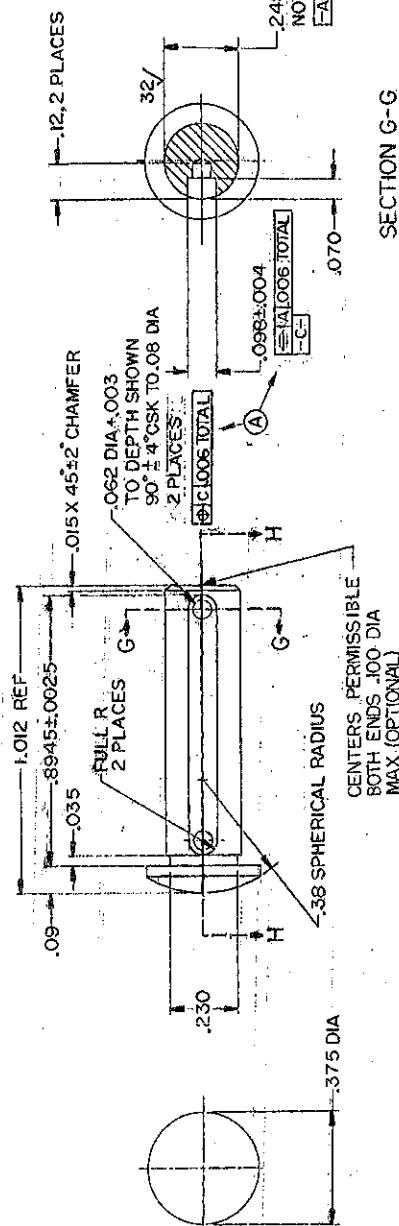
CATCH-BOLT

8448628

ANSWE Form 403D, 29 Jul 69

[illegible]

1. STEEL ALLOY, CMFSPN 8620 OR 86L20, ASTM A322.
2. FINISH 12/5/ EXCEPT AS NOTED.
3. BREAK ALL SHARP EDGES .010 MAX.
4. FILLET RADII .010 MAX.
5. HEAT TREATMENT, CARBURIZE, .010+.005 TOTAL CASE DEPTH.
6. GRIND AFTER HEAT TREAT MAX REDUCTION IN DIAMETER AFTER GRINDING .006.
7. MIL-W-13855 APPLIES.



SECTION G-G

REV. NO.	REV. DATE	REV. DESCRIPTION	REVISIONS	
			DATE	APPROVED
1	27 APR 70	REDRAWN FROM COLT'S DRAWING, DISCUSS REV B		
2	5 OCT 70	A 13/SEE ERR NOR 20778		
3	16 MAR 73	B SEE ERR NOR 50646		
4	30 OCT 76	C NOR W952209 96-02-13		
5	9 OCT 78	D NOR G553143 901112		
6	9-10-11	E NOR G152048 910708		
7	32 OCT 11	F NOR G253059 920716		
8		G FCP G630390 920630		

MECHANICAL PROPERTIES		15N		APPLICATION		5.3.12 OF MIL-STD-17		SEE NOTE 1		27 APR 1970		CONTRACT NO.		... DEPT OF THE ARMY -US ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61204 PIN, TAKEDOWN		DATE 1970 4 8448584 19204 8448584	
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TENSILE STRENGTH		TENSILE ELONGATION		TENSILE REDUCTION OF AREA		TENSILE YIELD STRENGTH		TENSILE MODULUS		TENSILE FATIGUE							

PIN TAKEDOWN

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AUTHORITY. 97-06-77.

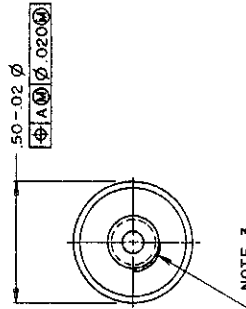
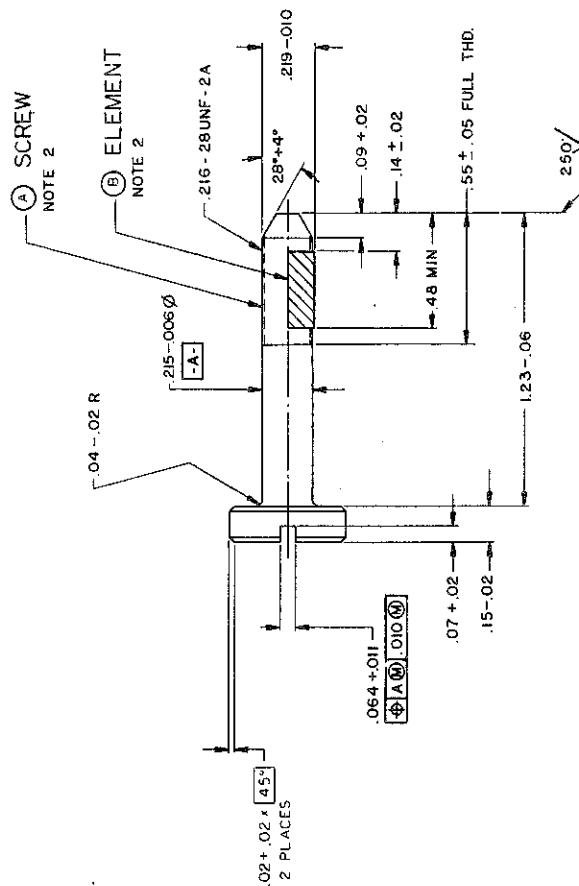
SWE Form 403D, 29 Jul 69

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NOTES:—

- 1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.
- 2 - MATERIAL :-
 - A. SCREW-STEEL, ANSI 1030-1040 .
 - B. ELEMENT-MUST MEET THE PERFORMANCE REQUIREMENTS OF MIL-F-18240 CONFIGURATION B PATCH.
- 3 - COVERAGE OF ELEMENT TO BE 90° MIN OF THREADED DIA. RANDOM RADIAL LOCATION OF ELEMENT.
- 4 - BREAK SHARP EDGES .005 ±.010 .
- 5 - FILLET RADII .015 -0.02 .
- 6 - FINISH ¹²⁵✓ ALL OVER EXCEPT AS NOTED.
- 7 - PROTECTIVE FINISH - 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171.
- 8 - HEAT TREATMENT - HARDEN AND TEMPER TO 30-40.



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE ERAW252013	8/20/64	W.C. H. '64
A	NOR W45 3011 / 84-03-20	8/40/20	W.C. H. '64
B	NOR W45 0030 / 84-11-15	8/50/20	W.C. H. '64
C	NOR W556004 / 860204	8/90/25	W.C. H. '64

PART NO. 9349120 U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	
TITLE SCREW, SWIVEL		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	
FSCAM NO. 9349120		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	
SIZE D		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	
SCALE 4:1 9349120		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	
SHEET 1 OF 1		ORIGINAL DATE OF DRAWING 82-02-26		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MECHANICAL PROPERTIES		U.S. AIR FORCE U.S. AIR FORCE U.S. AIR FORCE	

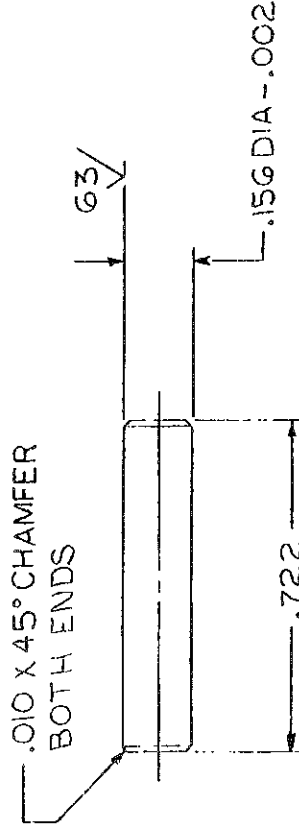
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NOTES:

1. STEEL, CMPSN 1010 TO 1020, (A) PER ASTM A576.
2. FINISH 125/ EXCEPT AS NOTED.
3. FINISH-5.3.12 OR 5.3.2.2 OF MIL-STD-171.
4. MIL-W-13855 APPLIES.



REVISIONS			
MF	ZONE	LTR	DESCRIPTION
		A	(2)SEE ERR HQR 10835
		B	NOR W9S2009 80-02-13
		C	NOR W5S8004/860204
			DATE
			31 AUG 71
			80-05-16
			890215

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS		TOLERANCES:		DATE	5 JUN 70	U.S. ARMY WEAPON COMMAND	
MIN		ANGLES	±.005	PREP	T.A. Wilson & B. B. B.	ROCK ISLAND, ILLINOIS 61201	
MAX		3 PLACE DECIMALS	±.01	CHK	B. B. B.	PIN	
EL2		2 PLACE DECIMALS	±.01	ENGR	B. B. B.	SIZE CODE IDENT NO. DRAWING NO.	
RA		MATERIAL	SEE NOTE 1	SUBMITTED	APPROVED	B 19204 8448655	
BH		FINAL PROTECTIVE FINISH	SEE NOTE 3			SCALE 4/1	
RH		NEXT ASSY	APPLICATION			SHEET 1 OF 1	

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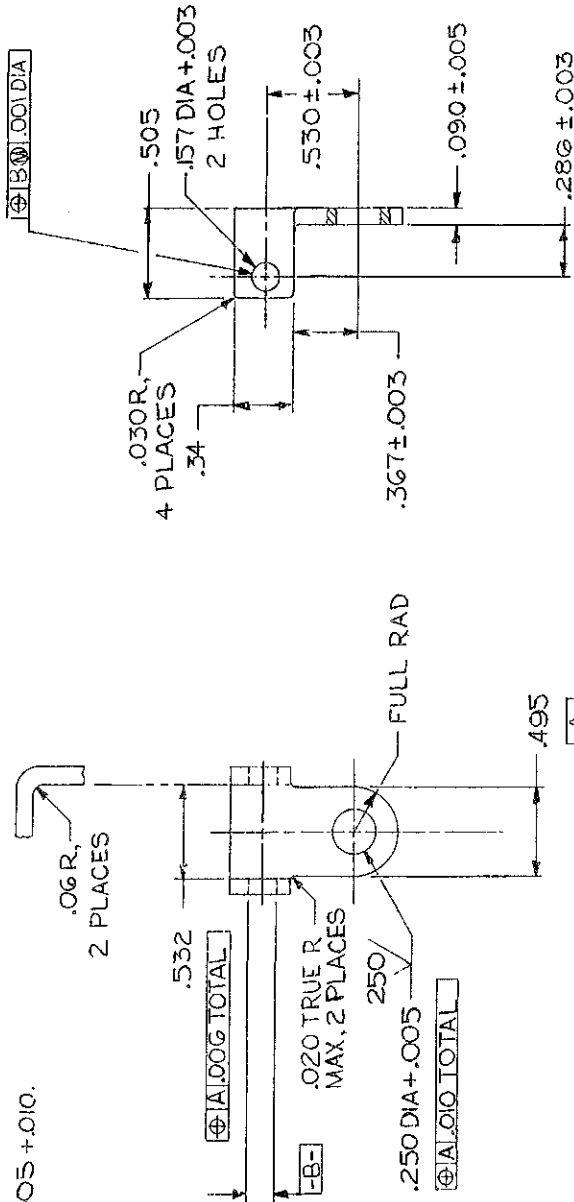
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NOTES:

1. BLANK EDGES $\frac{250}{125}$ V/ EXCEPT AS NOTED.
2. FINISH $\frac{125}{125}$ V/ EXCEPT AS NOTED.
3. FINISH 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171.
4. BREAK SHARP EDGES .005 +.010.
5. MIL-W-13855 APPLIES.

DIRECTION OF GRAIN



REVISIONS

REV	ZONE	DATE	DESCRIPTION	APPROVED
1	A	25 AUG 70	SEE 50 HRS-02231	JB
2	B	6 OCT 72	SEE ERR HQR 2077B	JB
3	C	22 MAR 73	SEE ERR HQR 30671	JB
4	D	82-07-15	1025 HRS-02231	JB
5	E	82-05-21	NOR W25 0026	JB
6	F	83-09-22	NOR W58004 / 860204	JB
7	G	890215	NOR G63149 961024	JB

CURRENT DESIGN ACTIVITY CASE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL NEW JERSEY 07806-5000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES ± .005 3 PLACE DECIMALS ± .01 2 PLACE DECIMALS ± .01		CONTRACT NO.	
YS MIN				DATE 5 JUN 70	
YS MAX				PREPARED T. A. Wilson T. A. 516	
EL2				CHECKED J. B. Wilson T. A. 516	
RA				ENGINEER J. B. Wilson T. A. 516	
BH				SUBMITTED	
RH				APPROVED R. J. Henry	
MATERIAL		STEEL, CMPSN		DEPT OF THE ARMY	
		1010 THEN 1020		U.S. ARMY WEAPONS COMMAND	
		SPEC ASTM A109		ROCK ISLAND, ILLINOIS, 61201	
09349119		MIG, M16A2		HINGE	
NEXT ASSY		MIGAL		SIZE CODE IDENT NO. DRAWING NO.	
APPLICATION		SEE NOTE 3		C 19204	
				8448653	
				SCALE 2/1	
				SHEET 01	

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NOTES:-

- 1-STEEL STRIP, TEMPER NO.2, ASTM A109 OR STEEL BAR, 1018 THRU 1020, ASTM A576, FORGED PER MIL-S-45172, GRADE C OR D.
- 2-FINISH 125/EXCEPT AS NOTED.
- 3-MIL-W-13855 APPLIES
- 4-EDGE RADIUS .045±.015 UNLESS OTHERWISE SPECIFIED.
- 5-DIE MISMATCH .015 MAX.
- 6-DRAFT ANGLE 7±2°.
- 7-NO FLASH EXTENSION PERMISSIBLE.
- 8-.08 MAX PARTING LINE TRIM FLAT.
- 9-DIMENSIONS APPLY TO INTERSECTION OF STRAIGHT LINES.

.2160-28UNF-2B
 Φ .010 TOTAL

FULL R
 2 PLACES

.176±.010

FULL R
 2 PLACES

.176±.010

.03 X 45° CHAM

.250 MAX

.225±.010

.250 R±.015, .87±.03

2 PLACES

.088R±.02 FOR ENTIRE LOOP

45°±5°

.176±.02

.176±.02 2 PLACES

.25±.02

.06 R MAX FOR PERIPHERY

.88±.03

.250

.06 MAX FLAT PERMISSIBLE INSIDE OF LOOP

.170±.02

Φ .020

.67

.176±.02

.176±.02

.176±.02

.176±.02

.176±.02

.176±.02

.176±.02

.176±.02

MT	ZONE	REV	DESCRIPTION	DATE	APPROVED
		A	(2) SEE EO HRD-02230	25 AUG 70	
		B	(9) SEE HQR 10716	5 MAY 71	
		C	SEE HQR 10849	15 SEP 71	
		D	SEE ERR HQR 20778	6 OCT 72	
		E	SEE NOR 7650003-0000	22 JAN 73	
		F	NOR 7650003-0000	22 JAN 73	
		G	NOR W650061 86-05-21	8 JUL 73	
		H	NOR 0753082/87016	880222	
		J	NOR W58004/860204	890215	
		K	NOR L852015 980812	980901	

CURRENT DESIGN ACTIVITY CAGE CODE 19200
 U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL NEW JERSEY 07806-5000

DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
SWIVEL	
ITEM CODE	8448652
SCALE	2/1

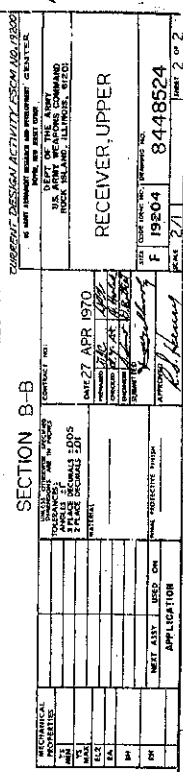
DATE	5 JUN 70
PREPARED BY	R. B. Buehler
CHECKED BY	R. B. Buehler
ENGINEER	R. B. Buehler
SUBMITTED BY	R. B. Buehler
APPROVED BY	R. B. Buehler

CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES	
ANGLES ±10'	
3 PLACE DECIMALS ±.005	
2 PLACE DECIMALS ±.01	
MATERIAL	
SEE NOTE 1	
FINAL PROTECTIVE FINISH	
5.3.1.2 OR 5.3.2.2	
OF MIL-STD-171	

MECHANICAL PROPERTIES	APPLICATION
YS	
YS MIN	
YS MAX	
EL2	
RA	
BH	
RM	
12012082	M4, M4A1
D9349119	M16A1
NEXT ASSY	USED ON

1

①
= 144,006 TOTAL



4

3

2

1

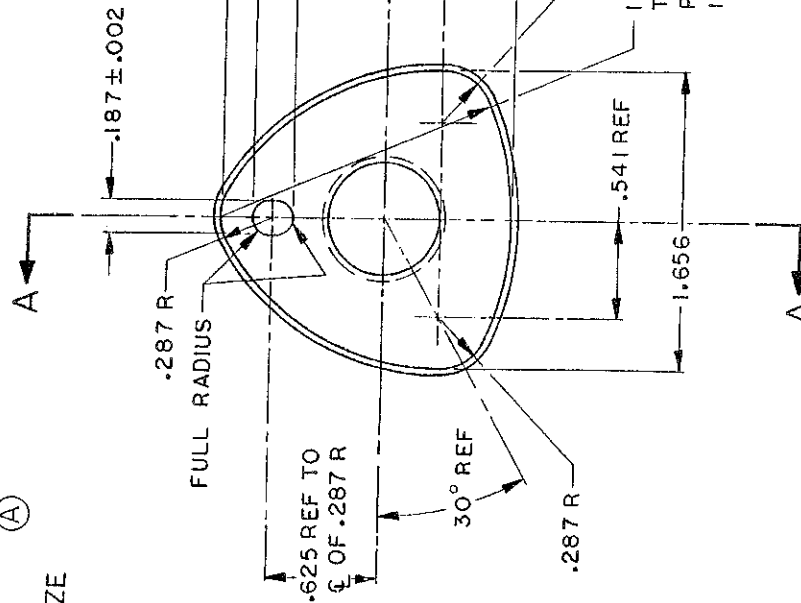
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NOTE :

1. STEEL, CMPSN 1045 THRU 1070, COLD ROLLED, SPHEROIDIZE ANNEALED, SPEC QQ-S-700.
2. FINISH $125\sqrt{\text{ }}$
3. BREAK SHARP EDGES .010 R MAX.
4. FINISH 5.3.1.2 OF MIL-STD-171.
5. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
6. MIL-W-13855 APPLIES.

(A)



SECTION A-A

(A)

MECHANICAL PROPERTIES	
YS	MIN
YS	MAX
EL2	RA
SH	
RH	15N 79.5-815

F8448601	M16
F8448522	M16A1
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES:	
ANGLES	± .005
3 PLACE DECIMALS	± .005
2 PLACE DECIMALS	± .01
MATERIAL	
SEE NOTE 1	
FINAL PROTECTIVE FINISH	
SEE NOTE 4	

DATE	27 APR 1970
PREPARED	0.9.14
CHECKED	0.9.14
ENGINEER	0.9.14
SUBMITTED	0.9.14
APPROVED	R. J. Henry

CONTRACT NO:	
DATE	27 APR 1970

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER	DOVER, NEW JERSEY 07801
--	-------------------------

DEPT OF THE ARMY	U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201	

SIZE	CODE	IDENT NO.	DRAWING NO.
C	19204		8448564

SHEET	1	OF	1
-------	---	----	---

PARTS LIST		PL-8448501		ROCK ISLAND ARSENAL		REV. DATE 16 APR 76	
DOCUMENT/PART NUMBER D 8448501				ROCK ISLAND IL		REVISION LETTER A	
BOLT CARRIER ASSEMBLY				CODE ID 19204		SHEET 1	
CHANGE CONTROL NUMBER 76V001B				AUTHENTICATION-		ORIG. DATE 27 APR 70	

FND QTY	UNIT CODE	PART OR IDENTIFYING NO	DRAWING/DOCUMENT SIZE	NUMBER	NOMENCLATURE OR DOCUMENT TITLE	SUP
1	8448502	C 8448502			PIN, CAM	LST
1	8448503	D 8448503			PIN, FIRING	
1	8448504	B 8448504			PIN, RETAINING, FIRING PIN	
1	8448505	C 8448505			KEY AND BOLT CARRIER ASSEMBLY	X
1	8448509	C 8448509			BDLT ASSEMBLY	X
TOTAL NUMBER OF SHEETS					1	

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SD - SELECTION OPTIONAL

8 7 6 5 4 3 2 1

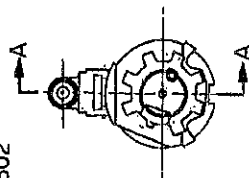
NOTES:-

- 1- BOLT ASSEMBLY- 12972691 MUST CAM FREELY IN KEY AND BOLT CARRIER ASSEMBLY- 8448505.
- 2- FIRING PIN- 8448503 MUST MOVE FREELY IN BOLT ASSEMBLY- 12972691.
- 3- FIRING PIN RETAINING PIN- 8448504 MUST BE SECURE AND MUST HOLD FIRING PIN SECURELY.
- 4- MIL-W-13855 APPLIES.

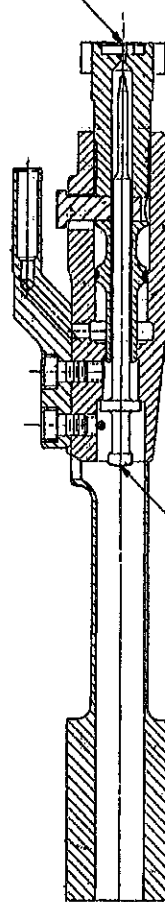
REV	DATE	DESCRIPTION	APPROVED
1	95/02/01	PRODUCT BASELINE	HJS
2	98/02/13	NOR L753059 971016 A (ECP 1853000 980126) A (ECP 1853007 980225)	JB

KEY AND BOLT CARRIER ASSEMBLY-8448505

CAM PIN- 8448502



FIRING PIN RETAINING PIN- 8448504
INSERT FROM OPPOSITE SIDE
SEE NOTE 3

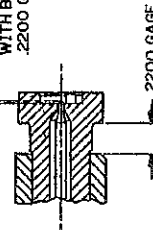


BOLT ASSEMBLY- 12972691
SEE NOTE 1

FIRING PIN- 8448503
SEE NOTE 2

.028 TO .036 FIRING PIN PROTRUSION
WITH BOLT IN LOCKED POSITION AT
.2200 GAGE DIMENSION

SECTION A-A



SEE PL- 8448501

PART NO. 12011849

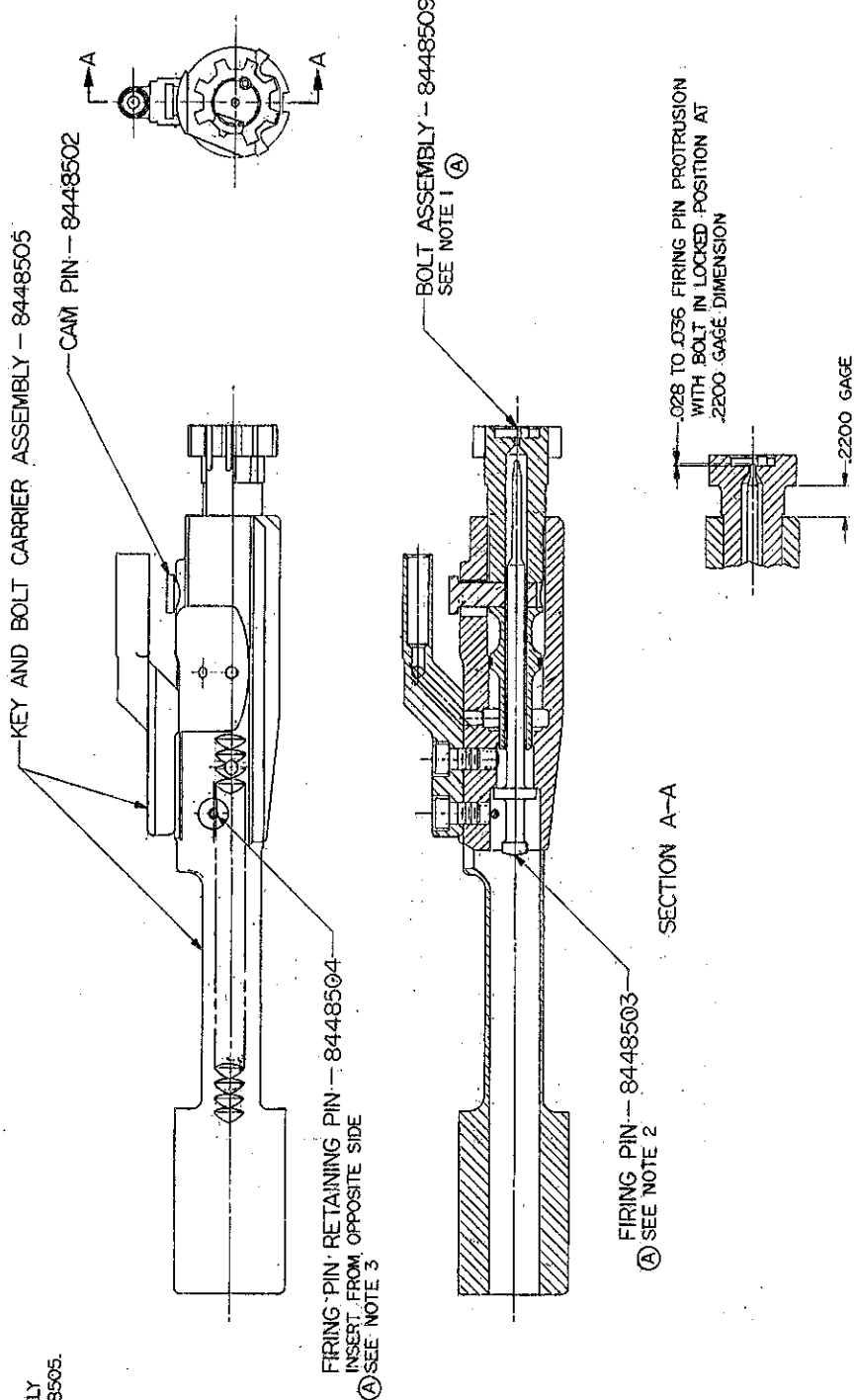
DESIGN ACTIVITY		U.S. ARMY	
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER		PROPERTY ANALYST: RPT ARMY 0708-000	
CONTRACT NUMBER		CONTRACTOR	
DRAWN BY: HJS		CHECKER: HJS	
DATE: 95/02/01		DATE: 95/02/01	
DRAWING APPROVAL		DESIGN APPROVAL	
SCALE: 2/1		UNIT: IN.	
APPLICATION		BOLT CARRIER ASSEMBLY	
SIZE: D 19200		12011849	

DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

[illegible]

NOTE

1. BOLT ASSEMBLY- 8448509 MUST COME FREELY IN KEY AND BOLT CARRIER ASSEMBLY- 8448505
2. FIRING PIN- 8448503 MUST MOVE FREELY IN BOLT ASSEMBLY- 8448509.
3. FIRING PIN RETAINING PIN- 8448504 MUST BE SECURE AND MUST HOLD FIRING PIN SECURELY.
4. MIL-W-13855 APPLIES. (A)



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REVISIONS			
MF	ZONE	DESCRIPTION	DATE
	B	REPLACES REV A W/CHANGE SEE ERR HQR 20778	6 OCT 72
	C	NOR W250011 / 82-04-13 (ECP W250034 / 82-07-15)	83-11-04
	D	ERR 2921182AN (ECP 68531168109)	83-11-04

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____ 0.0220 ± 0.0005
COIL DIAMETER (OD) _____ 1.18 ± 0.003
FREE LENGTH _____ 500 REF
TOTAL COILS _____ 13 REF
DIRECTION OF HELIX _____ OPTIONAL
LOAD AT COMPRESSED LENGTH OF .370 _____ 4.29 LB ± .43 LB
LOAD AT COMPRESSED LENGTH OF _____
SPRING RATE _____
SOLID LENGTH _____ 3.15 MAX
TYPE OF ENDS _____ CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

NOTES:

1. WIRE, CORROSION RESISTING, TYPE 631, (17-7PH), ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO COND TN CH900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY AND ENGINEERING CENTER
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL NEW JERSEY 07806-5000

PART NO. 8448538

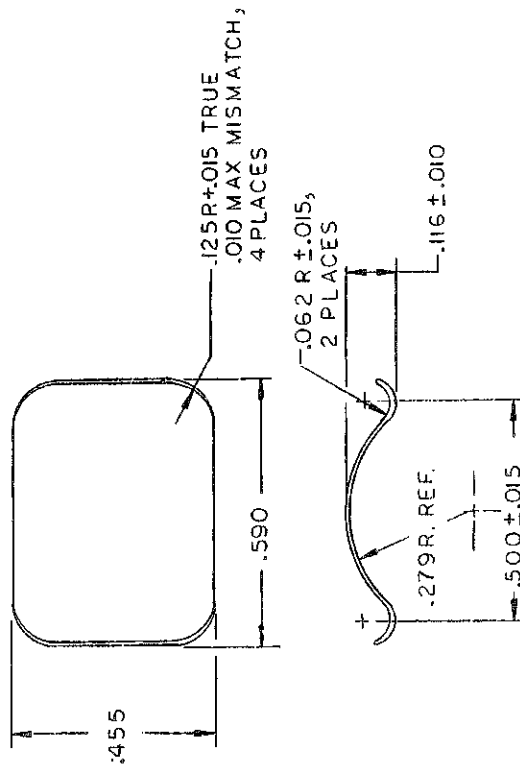
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS		TOLERANCES:		DATE 27 APR 70		U.S. ARMY WEAPONS COMMAND	
MIN		ANGLES		PREP <i>R. V. V. R. V. R. V.</i>		ROCK ISLAND, ILLINOIS, 61201	
YS		3 PLACE DECIMALS ± .005		CHK <i>R. V. V. R. V. R. V.</i>		SPRING, DETENT	
MAX		2 PLACE DECIMALS ± .		ENGR <i>R. V. V. R. V. R. V.</i>		REAR SIGHT	
ELZ		MATERIAL		SUBMITTED		SIZE	
RA		SEE NOTE 1				CAGE IDENT NO. DRAWING NO.	
BH		M16				B 19204 8448538	
RH		M16A1				SCALE	
		NEXT ASSY USED ON				SHEET 1 OF 1	
		APPLICATION				DUPLICATE ORIGINAL	

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NOTES:

1. STEEL-CARBON, UNTEMPERED SPRING QUALITY, ANEAL, CMPSN 1095, SPEC ASTM A684 OR AMS 5121, .010 $\pm$.001 THICK.
2. FINISH 63/EXCEPT SHEARED EDGES 25Q/.
3. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
4. MIL-W-13855 APPLIES.
5. FINAL PROTECTIVE FINISH: FINISH 5.3.1.2. OF MIL-STD-171.
6. HARDNESS: DPH484-528.



REVISIONS		
ZONE	DESCRIPTION	DATE
1	PRODUCT BASELINE	91-10-10
2	ERR GIS3098	91-10-10
3	A NOR G3S3028/930413	93-05-21

PART NO. 12011987

PMIC	CONTRACT NUMBER	DESIGN ACTIVITY	U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PIA THIRTY ARSENAL NEW JERSEY 07808-1000
MECHANICAL PROPERTIES	CONTRACTOR	DATE	91-10-10
YPS	DRAWN BY	ENGINEER	
TS	CHECKER		
ELZ	DRAWING APPROVAL		
RA	DESIGN APPROVAL		
BH			
RH			
8448602	MIS		
8448523	MISAI		
NEXT ASSY	USED ON		
APPLICATION			
DO NOT SCALE DRAWING	UNLESS OTHERWISE SPECIFIED	2 PL ± .005	THIRD ANGLE PROJECTION
UNLESS OTHERWISE SPECIFIED	DIMENSIONS ARE IN INCHES	3 PL ± .010	
DECIMAL	FRACTION		
2 PL ± .005			
3 PL ± .010			
SCALE	1" = 1"		
SIZE	CASE CODE	12011987	
C 19200			
SCALE	NONE		

SMCAR FORM 67, 1 DEC 87(TEMP), REPLACES SMCAR FORM 67, 1 MAR 87(TEMP), WHICH MAY BE USED UNTIL EXHAUSTED

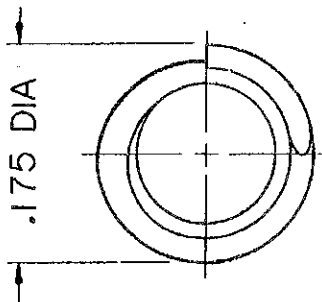
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3. MIL-W-13855 APPLIES.

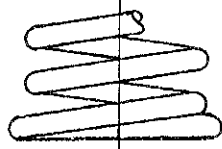
MAX. SOLID LENGTH — .150

13204	8448594
SCALE 10/1	SHEET 1 OF 1

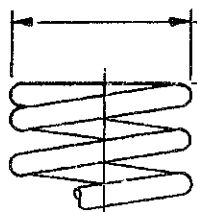
REVISIONS					
MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
			REDRAWN FROM COLT'S DRAWING CG1925 REVISION A	27 APR 70	
		A	(1) SEE EO HRD 02197-3	15 JULY 70	<i>[Signature]</i>
		B	(4) SEE ERR HQR 20778	6 OCT 72	<i>[Signature]</i>
		C	NORW250011 / 82-04-13 (ECP WZ50034 / 82-07-15)	83-11-04	<i>[Signature]</i>



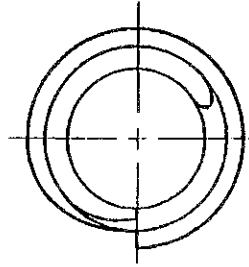
.175 DIA



FREE LENGTH.
.35 REF.



.150 DIA $\pm$.003



5

4

3

2

1

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NOTES:

1. FINISH 125/ EXCEPT AS NOTED.

2. BREAK SHARP EDGES .010 MAX.

3. HEAT TREATMENT: QUENCH (B) AND TEMPER TO HARDNESS SPECIFIED.

4. STEEL CARBON, CMPSN 1137, 11L37 OR 1141, 11L41, SPEC ASTM A108-81.

5. MIL-W-13855 APPLIES.

MECHANICAL PROPERTIES

YS

MIN

9390009

M4

YS

MAX

F9327056

M231

EL 2

RA

F8448548

M16

BH

MI6A1

RH

15N 785-80.5

APPLICATION

NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES:

ANGLES

3 PLACE DECIMALS

2 PLACE DECIMALS

MATERIAL

SEE NOTE 4

CONTRACT NO.

DATE 27 APR 1970

PREP

CHK

ENGR

SUBMITTED

APPROVED

REVISIONS

MF

ZONE

LTR

DESCRIPTION

DATE

APPROVED

32/

.1255 DIA -.0005

.185-.005

.015+.005, BOTH ENDS

30°± 4° INCL, BOTH ENDS

(A)

(B)

PIN, BARREL INDEXING

SIZE CODE IDENT NO. DRAWING NO.

B 19204 8448551

SCALE 10/1

SHEET 1 OF 1

FSCM NO 19200

CURRENT

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

DOVER, NEW JERSEY 07801

AMSWE Form 403B, 29 Jul 69

October 15, 2004 11:34 AM

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NOTES:

1. WIRE, STEEL, CARBON, SPRING, MUSIC, SPEC ASTM-A228. TENSILE STRENGTH SHALL BE 376,000 MIN.
2. STRESS RELIEVE AFTER FORMING. HOLD AT 475°F ± 25° FOR 30 MINUTES.
3. SET SPRING 3 TIMES AFTER STRESS RELIEF.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 ± .012.

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER ----- 0240 ± .0003
 COIL DIAMETER (OD) ----- 1.03 ± .003
 FREE LENGTH AFTER SETTING ----- 926 REF
 TOTAL COILS ----- 27 REF
 DIRECTION OF HELIX ----- OPTIONAL
 LOAD AT COMPRESSED LENGTH OF .850 ----- 2.94 LB ± .30 LB
 LOAD AT COMPRESSED LENGTH OF .784 ----- 5.50 LB ± .25 LB
 SPRING RATE -----
 SOLID LENGTH ----- 650 MAX
 TYPE OF ENDS ----- SQUARED, GROUND
 MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

REVISIONS

AMF ZONE	LTR	DESCRIPTION	DATE	APPROVED
	C	REPLACES REV B W/CHANGE SEE ERR HQR 20778	6 OCT 72	2 B
	D	NOR W9S2009 80-02-13	80-05-16	2 B
	E	NOR W2S 0011 / 82-04-13 (ECP W3S 3120 / 83-07-07)	83-11-04	2 B
	F	ERR Z9Z1251W (ECP G9S2036/890721)	900403	2 B
	G	NOR GIS2018 91-07-08	91-10-11	2 B

MECHANICAL PROPERTIES		8448509	M4	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	DATE	27 APR 70
YS MIN	F9327230	M231	M16	TOLERANCES:	PREP	PV	LP	
YS MAX			M16	3 PLACE DECIMALS ± .005	CHK	GD	DK	
EL 2			M16	2 PLACE DECIMALS ± .005	ENGR	RE	LB	
RA			M16	MATERIAL	SUBMITTED			
BH			M16	SEE NOTE 1				
RI			M16	FINAL PROTECTIVE FINISH	APPROVED			
NEXT ASST		USED ON		R.S. HENRY		A.A. COLE		
APPLICATION								

PART NO. 8448516

CURRENT

FSCM NO. 19200

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

ROCK ISLAND ARSENAL,
ROCK ISLAND, ILL 61201

SPRING, EJECTOR AND
SAFETY DETENT

SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448516

SCALE NONE SHEET 1 OF 1

SCANNED DUPLICATE ORIGINAL

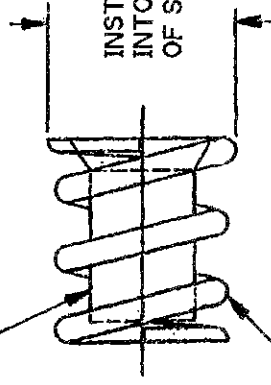
2

NOTES:-

1- MIL-W-13855 APPLIES.

REVISIONS		
ZONE	LTR	DESCRIPTION
-	-	PRODUCT BASELINE ERR 65S3081
		DATE (YR V3 DAI) APPROVED
		951211
		HJS

— BUFFER, EXTRACTOR- 12972693



— SPRING, EXTRACTOR- 8448753

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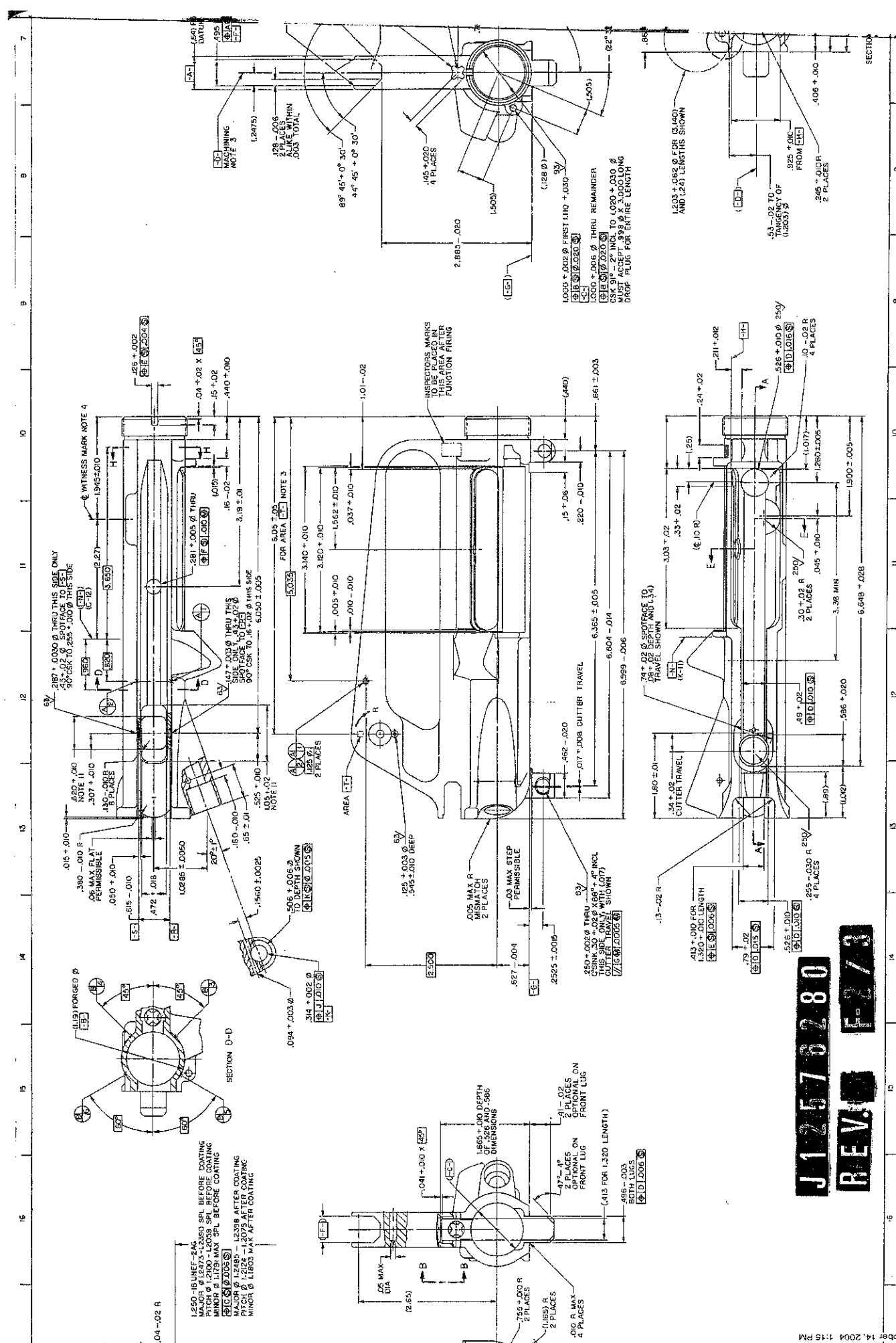
PART NO. 12972692

PMIC		CONTRACT NUMBER		DESIGN ACTIVITY U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
MECHANICAL PROPERTIES		CONTRACTOR		SPRING ASSY, EXTRACTOR	
YP		DRAWN BY	HJS	DATE (YR-V3-DAI)	951211
TS		CHECKER		ENGINEER	
EL2		DRAWINGS APPROVAL			
RA		DESIGN APPROVAL			
BH					
RH					
12972691		M4/M4A1		SIZE	
NEXT ASSY		USED ON		3 1920C	
APPLICATION				CAGE CODE	
				12972692	
				SCALE	
				10/1	
				UNIT WT.	
				SHEET	

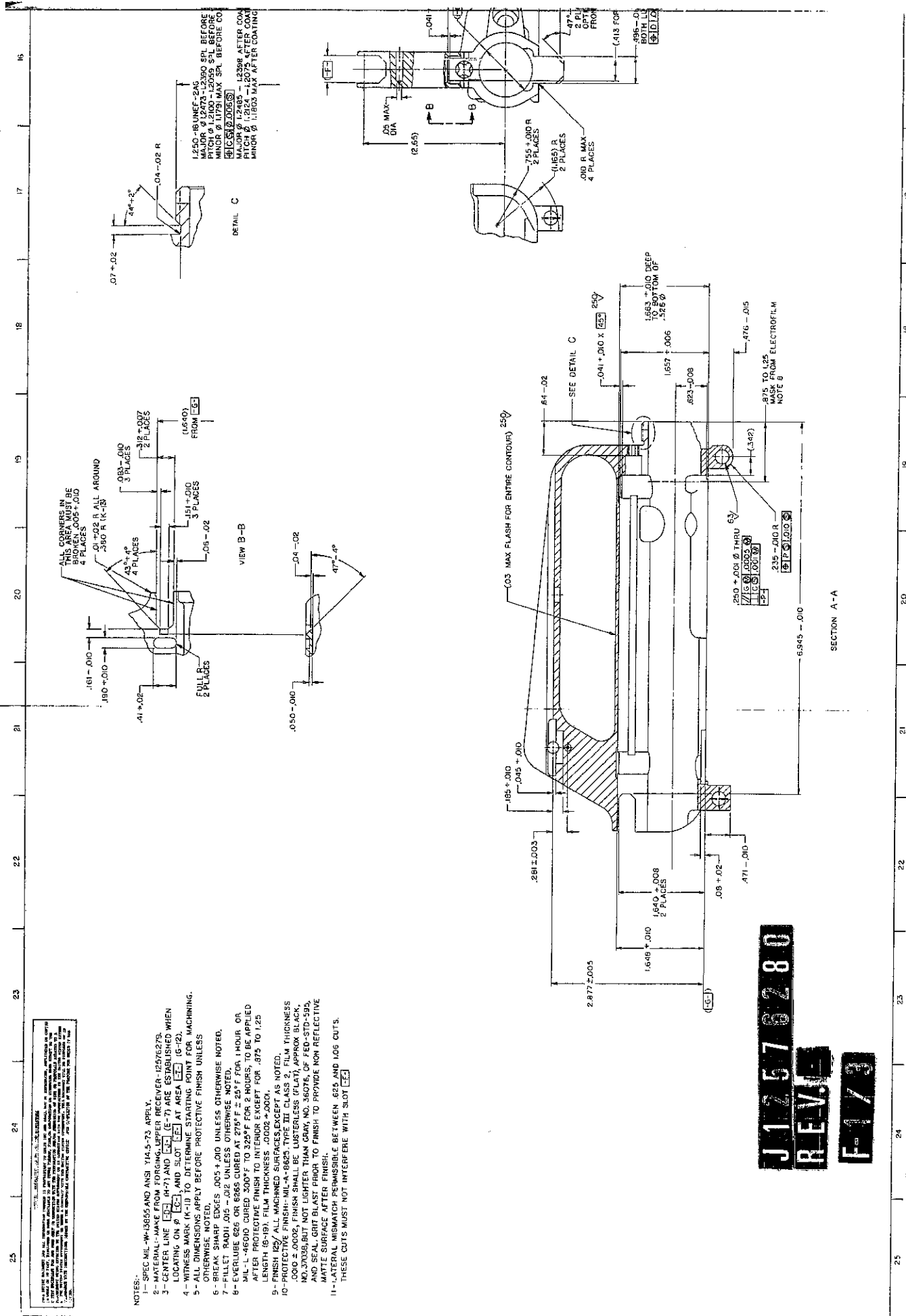
SMCAR FORM 66, 1 MAR 89 (TEMP) REPLACES SMCAR FORM 66, 1 JUL 87 (TEMP)
WHICH MAY BE USED UNTIL EXHAUSTED

- 1- SPEC MIL-W-13853 AND ANSI Y14.3-73 APPLY.
- 2- MATERIAL - WAX FROM FORGING, UPPER ESTABLISHED 125/273.
- 3- CENTER LINE $\overline{C-L}$ IN-718 AND $\overline{C-L}$ (E-7) ARE ESTABLISHED WHEN LOCATING ON $\overline{P}$ $\overline{C-L}$ AND SLOT $\overline{C-L}$ AT AREA $\overline{C-L}$ (G-42).
- 4- WITNESS MARK (K-11) TO DETERMINE STARTING POINT FOR MACHINING.
- 5- DIMENSIONS APPLY ONLY TO PROTECTIVE FINISH UNLESS OTHERWISE NOTED.
- 6- BREAK SHARP EDGES .005 ± .010 UNLESS OTHERWISE NOTED.
- 7- FILL FILL RADI $\overline{R-1}$ - .012 UNLESS OTHERWISE NOTED.
- 8- OVERLUBE .028 OR .0265 CURED AT 275 F ± 25 F FOR 1 HOUR OR MIL-L-45610 CURED 3000 F TO 325 F FOR 2 HOURS, TO BE APPLIED AFTER PROTECTIVE FINISH TO INTERIOR EXCEPT FOR .875 TO 1.25 LENGTH (G-19). FILM THICKNESS .0009 ± .0001.
- 9- FINISH 125/ ALL MACHINED SURFACES, EXCEPT AS NOTED.
- 10- PROTECTIVE FINISH MIL-A-8625 TYPE II CLASS 2, FILM THICKNESS .0005 ± .0001. NO COATINGS TO BE APPLIED TO SURFACES 125/ BLACK, NO COATINGS NOT LIGHTER THAN 125/ BLACK. COATINGS TO BE 125/ BLACK AND SEAL GRIT BLAST PRIOR TO FINISH TO PROVIDE NON-REFLECTIVE WHITE SURFACE AFTER FINISH.
- 11- LATERAL MISMATCH PERMISSIBLE BETWEEN .525 AND .105 CUTS. THESE CUTS MUST NOT INTERFERE WITH SLOT $\overline{C-L}$.

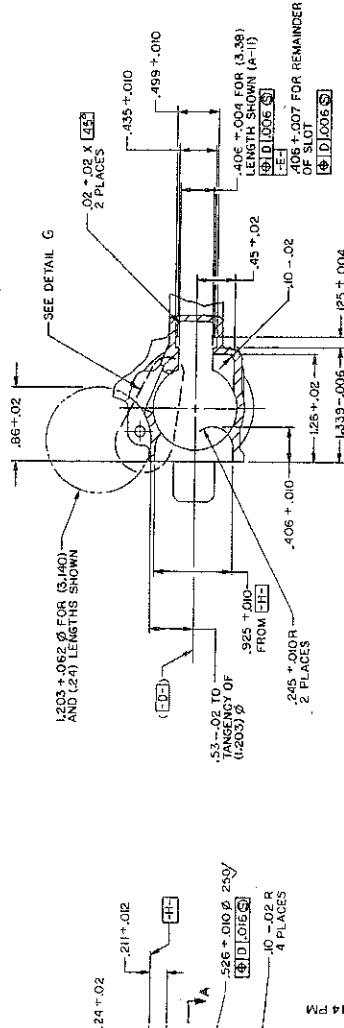
J112573280
REV.
F-1173



J12570280
REV. F-273



J12576280
REV. E
F-173

[illegible]

— .10 —.02 R

—,440 +.010

[illegible]

This document contains neither recommendations nor conclusions of the FBI. It is the property of the FBI and is loaned to your agency; it and its contents are not to be distributed outside your agency.

125/ EXCEPT AS NOTED

2. ALL DIMENSIONS APPLY UNLESS OTHERWISE SPECIFIED.
3. BEFORE FINISH, GRIT BLAST EXTERIOR OVER LENGTH 12 MIN TO PRODUCE NON-REFLECTIVE-MATTE FINISH AFTER FINISH.
4. FINISH MIL-A-8825 TYPE III, CLASS 2, FILM THICKNESS .0010 TO .0002. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
5. BREAK SHARP EDGES .005" OR UNLESS OTHERWISE SPECIFIED.
6. MIL-W-13855 APPLIED.



Lat: 30 40' 29 Jul 68

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO :
LATCH, CHARGING HANDLE

REQUEST/PRON ID : GALA73

TDPL COVER SHEET

RELEASED BY:

B.F. John P. Kania

1. MANUFACTURE AND ACCEPTANCE INSPECTION OF THE ABOVE MATERIAL SHALL BE IN ACCORDANCE WITH ALL DRAWINGS, SPECIFICATIONS AND OTHER TECHNICAL DATA LISTED IN THIS TDPL.
2. THIS TDPL IS COMPRISED OF THE FOLLOWING SECTIONS WHICH LIST THE DRAWINGS AND ASSOCIATED DOCUMENTS (WITH THEIR REVISION AND AMENDMENT LEVELS) REQUIRED TO PRODUCE, PACKAGE AND INSPECT THE MATERIAL BEING PRODUCED. (NA INDICATES NOT APPLICABLE)

	FROM	TO
A. PRODUCT DRAWING AND ASSOCIATED LISTS	0001	0001
B. PACKAGING DRAWINGS AND DOCUMENTS	0002	0002
C. INSPECTION DRAWINGS AND DOCUMENTS	0003	0003
D. SPECIFICATIONS AND STANDARDS	0004	0004
E. OUTSTANDING APPROVED ENGINEERING CHANGES	NA	NA
F. TDPL NOTE LEGEND	0005	0005
3. DRAWINGS/DOCUMENTS AND ASSOCIATED LISTS LISTED IN THE ABOVE TDPL SECTIONS ARE IDENTIFIED AS TO TYPE BY PREFIX CODES AS FOLLOWS:
 - PD PACKAGING DATA SHEET
 - OS SUPPLEMENTAL QUALITY ASSURANCE PROVISION
4. THE SPECIFICATIONS AND STANDARDS SECTION OF THE TDPL IS A COMPIATION OF ALL SPECIFICATIONS AND STANDARDS WHICH ARE ESSENTIAL FOR BIDDING AND MANUFACTURING PURPOSES. THE ABSENCE OF ANY SPECIFICATION OR STANDARD FROM THE LISTING WHICH IS OTHERWISE REFERRED TO IN ANY SPECIFICATION OR STANDARD LISTED THEREIN OR IS CALLED OUT ON A PRODUCT, PACKAGING OR INSPECTION DRAWING IS NOT TO BE CONSTRUED AS CONSTITUTING RELIEF FROM REQUIREMENTS OF THE SPECIFICATIONS. THE AMENDMENT OR REVISION LEVEL FOR SUCH UNLISTED SPECIFICATIONS AND STANDARDS SHALL BE AS SPECIFIED IN THE LATEST ISSUE OF DOD INDEX OF SPECIFICATIONS AND STANDARDS IN EFFECT AS OF THE DATE OF THIS TDPL. SUPERSEDED SPECIFICATIONS AND STANDARDS WHICH MAY BE REFERENCED ON DRAWINGS ARE LISTED TOGETHER WITH THE APPROPRIATE SUPERSEDING SPECIFICATION OR STANDARD. WHEN INTERIM CHANGES TO SPECIFICATIONS AND STANDARDS ARE ISSUED (AMENDMENTS, NOTICES OR CHANGE NOTICES), ONLY THE LATEST ISSUE IS LISTED IN THE TDPL. WHERE THESE INTERIM CHANGES ARE NOT CUMULATIVE, ALL PREVIOUS ISSUES ALSO APPLY, UNLESS THE DOCUMENT ITSELF STATES OTHERWISE.
5. ALL REFERENCES ON DRAWINGS/DOCUMENTS AND ASSOCIATED LISTS TO PICATINNY, FRANKFORD OR ROCK ISLAND ARSENALS WILL BE CONSIDERED AS CHANGED TO COMMANDER, ARDEC, ATTN: SMCAR-BAC, PICATINNY ARSENAL, NJ 07806-5000
6. ALL REFERENCES TO PARTS LISTS ON US ARMY TANK AUTOMOTIVE COMMAND (TACOM) DRAWINGS SHALL BE DISREGARDED.

Information Statement F.
Further distribution only as directed by ARDEC.
Form 10-1, 1-78, or 1-79, or 1-80, or 1-81, or 1-82, or 1-83, or 1-84, or 1-85, or 1-86, or 1-87, or 1-88, or 1-89, or 1-90, or 1-91, or 1-92, or 1-93, or 1-94, or 1-95, or 1-96, or 1-97, or 1-98, or 1-99, or 1-100, or 1-101, or 1-102, or 1-103, or 1-104, or 1-105, or 1-106, or 1-107, or 1-108, or 1-109, or 1-110, or 1-111, or 1-112, or 1-113, or 1-114, or 1-115, or 1-116, or 1-117, or 1-118, or 1-119, or 1-120, or 1-121, or 1-122, or 1-123, or 1-124, or 1-125, or 1-126, or 1-127, or 1-128, or 1-129, or 1-130, or 1-131, or 1-132, or 1-133, or 1-134, or 1-135, or 1-136, or 1-137, or 1-138, or 1-139, or 1-140, or 1-141, or 1-142, or 1-143, or 1-144, or 1-145, or 1-146, or 1-147, or 1-148, or 1-149, or 1-150, or 1-151, or 1-152, or 1-153, or 1-154, or 1-155, or 1-156, or 1-157, or 1-158, or 1-159, or 1-160, or 1-161, or 1-162, or 1-163, or 1-164, or 1-165, or 1-166, or 1-167, or 1-168, or 1-169, or 1-170, or 1-171, or 1-172, or 1-173, or 1-174, or 1-175, or 1-176, or 1-177, or 1-178, or 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1-979, or 1-980, or 1-981, or 1-982, or 1-983, or 1-984, or 1-985, or 1-986, or 1-987, or 1-988, or 1-989, or 1-990, or 1-991, or 1-992, or 1-993, or 1-994, or 1-995, or 1-996, or 1-997, or 1-998, or 1-999, or 1-1000, or 1-1001, or 1-1002, or 1-1003, or 1-1004, or 1-1005, or 1-1006, or 1-1007, or 1-1008, or 1-1009, or 1-1010, or 1-1011, or 1-1012, or 1-1013, or 1-1014, or 1-1015, or 1-1016, or 1-1017, or 1-1018, or 1-1019, or 1-1020, or 1-1021, or 1-1022, or 1-1023, or 1-1024, or 1-1025, or 1-1026, or 1-1027, or 1-1028, or 1-1029, or 1-1030, or 1-1031, or 1-1032, or 1-1033, or 1-1034, or 1-1035, or 1-1036, or 1-1037, or 1-1038, or 1-1039, or 1-1040, or 1-1041, or 1-1042, or 1-1043, or 1-1044, or 1-1045, or 1-1046, or 1-1047, or 1-1048, or 1-1049, or 1-1050, or 1-1051, or 1-1052, or 1-1053, or 1-1054, or 1-1055, or 1-1056, or 1-1057, or 1-1058, or 1-1059, or 1-1060, or 1-1061, or 1-1062, or 1-1063, or 1-1064, or 1-1065, or 1-1066, or 1-1067, or 1-1068, or 1-1069, or 1-1070, or 1-1071, 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02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO

1 of 5

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO :
LATCH, CHARGING HANDLE

REQUEST/PRON ID :GALA73

PREFIX	DRAWING/DOCUMENT	NO	OF	REV	DATE	CL	DOCUMENT TITLE	NOTE	REVIEW
CODE	SIZE	CAGE	NUMBER						DATE

PRODUCT DRAWINGS AND ASSOCIATED LISTS

E 19200 12579607	1	1	A	01/08/88			GEOMETRIC SYMBOLS FOR DIMENSIONING AND TOLERANCING		
D 19204 8448519	1	1	H	08/11/92	LIM		LATCH, CHARGING HANDLE		

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 2

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO : - - -
LATCH, CHARGING HANDLE REQUEST/PRON ID : GALA73

PREFIX	DRAWING/DOCUMENT	CODE	SIZE	CAGE	NUMBER	-SHEET- NO	REV	DOCUMENT	SEC	DOCUMENT	TITLE	NOTE	REVIEW DATE
PD	19204 8448519	1	1	B	06/11/80	LIM	PKG DATA SHT	-LATCH, CHARGING HANDLE					

PACKAGING DRAWINGS AND DOCUMENTS

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 3

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
 DOCUMENT NUMBER : D 19204 8448519
 SPECIFICATION : MIL-W-63150
 NATIONAL STOCK NO :
 LATCH, CHARGING HANDLE

REQUEST/PRON ID : GALA73

PREFIX	DRAWING/DOCUMENT	NO	OF	SYM	DATE	CL	DOCUMENT TITLE	NOTE	REVIEW DATE
B	19204 8443551	1	1	A	10/24/69		GAGE, FIXTURE, COMPARATOR		
D	19204 8443842	1	1	B	10/19/73		PLATE, COMPARATOR		
D	19204 8443905	1	2	A	09/16/70		GAGE, LOCATION		
		2	2	A	09/16/70				
D	19204 8443948	1	1	A	09/16/70		ADAPTER COMPARATOR FIXTURE		
QS	19204 8448519	1	4	D	09/10/92 LIM		SOAP -LATCH, CHARGING HANDLE		
		2	4	D	09/10/92 LIM				
		3	4	D	09/10/92 LIM				
		4	4	D	09/10/92 LIM				

INSPECTION DRAWINGS AND DOCUMENTS

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO

4

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO :
LATCH, CHARGING HANDLE

REQUEST/PRON ID :GAIA73

QPL/	DOCUMENT	REV AND	INT	SUPPL	DOCUMENT	SRC	DOCUMENT	NOTE
RECAT	NUMBER	SYM NO	CHG	NO	DATE	CL	TITLE	

SPECIFICATIONS AND STANDARDS

PPP-B-00636	L				01/01/91		BOXES, SHIPPING, FIBERBOARD	*
PPP-B-836					(REPLACED BY PPP-B-00636		)	
PPP-T-76	C				08/02/84		TAPE, PACKAGING, PAPER, FOR CARTON SEALING/	*
QQ-A-250	F				09/25/78		ALUMINUM AND ALUMINUM ALY, PLATE & SHEET, GENL SPEC FOR	*
QQ-A-250/12	F	1			11/05/91		ALUMINUM ALY, PLATE AND SHEET, 7075	*
FED-STD-595	B				12/15/89		COLORS	*
MIL-A-8625	E				11/13/89		ANODIC COATINGS, FOR ALUMINUM AND ALUMINUM ALLOYS	*
MIL-B-117	F	1			04/23/90		BAG, SLEEVE AND TUBING-INTERIOR PACKAGING	*
MIL-G-10944	B	3			02/19/82		GAGES, DIMENSIONAL CONTROL	*
MIL-P-116	J	1			10/24/91		PRESERVATION, METHODS OF	*
MIL-P-14232	E	2			02/28/92		PARTS, EQPT AND TOOLS FOR ARMY MATERIEL, PKG OF	*
MIL-W-13855	D	1			05/28/87		WEAPONS, SMALL ARMS & A/C ARMAMENT SUBSYSTEMS, SPEC	*
MIL-W-63150					09/09/88		WEAPONS AND SPRT MATERIEL, STD QA PROV FOR	*
MIL-STD-105	E				05/10/89		SMPLG PROCEDURES & TABLES FOR INSPECTION BY ATTRIBUTES	*
MIL-STD-129	L	1			01/10/92		MARKING FOR SHIPMENT AND STORAGE	*
MIL-STD-2073-1	B				06/21/91		DOD MATL PROC FOR DEV AND APPL OF PACKAGING REQ	*
ANSI-B46.1					00/00/85		SURFACE TEXTURE/SURFACE ROUGHNESS, WAVINESS & LAY/	**
ASA-B46.1					(REPLACED BY ANSI-B46.1		)	
ANSI-B47.1					00/00/88		GAGE BLANKS	**
CS8					(REPLACED BY ANSI-B47.1		)	
ANSI-X14.5					00/00/73		DIMENSIONING AND TOLERANCING FOR ENGINEERING DRAWINGS	**
ANSI-X14.5M					01/01/82		DIMENSIONING AND TOLERANCING FOR ENGINEERING DWGS.	**
USASI-X14.5					(REPLACED BY ANSI-X14.5M		)	

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 5

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO :
LATCH, CHARGING HANDLE

REQUEST/PRON ID : GALA73

TDPL NOTE LEGEND

DESCRIPTION OF SYMBOLS IN THE NOTE COLUMN

* - Not Furnished - To be obtained from C.O. Naval Publications and Forms Ctr., 5801 Tabor Ave., Phila., Penna., 19120, ATTN: Code 105. If not available, immediately advise the procuring contracting officer.

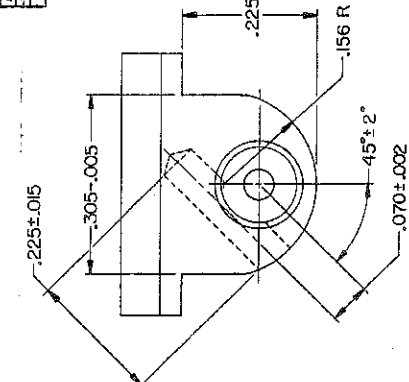
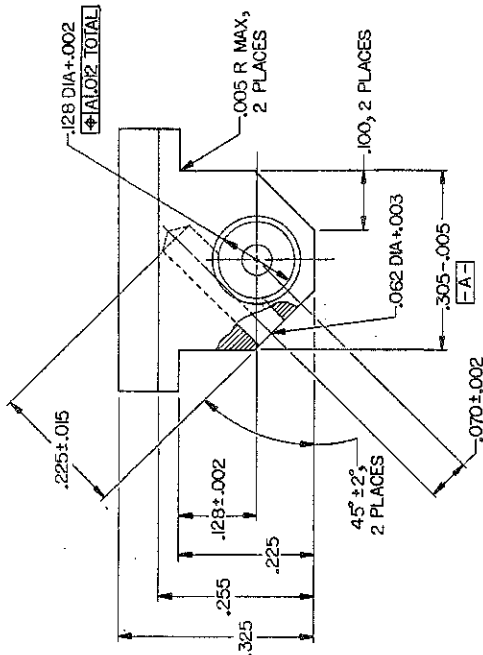
** -- Not Furnished - Commercial Specifications and Standards may be obtained from the publishers. They are not available from government sources.

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

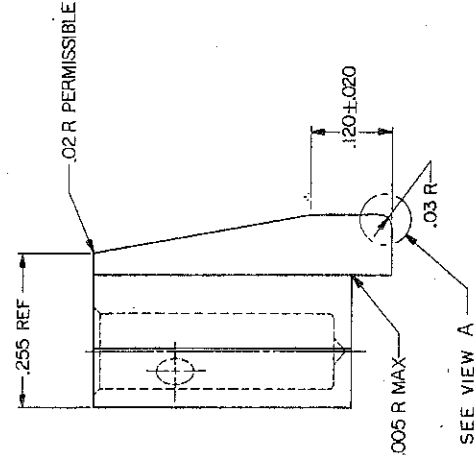
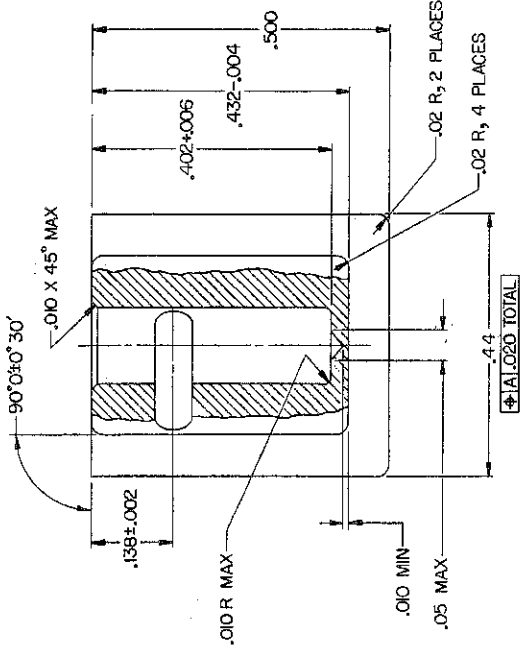
THIS ENTIRE DOCUMENT AND ALL INFORMATION THEREON IS PROPRIETARY TO COAT'S INC AND SHALL BE KEPT IN STRICTLY CONFIDENTIAL MANNER BY THE ADDRESSEE AND NOT BE DISCLOSED OR MADE AVAILABLE TO ANY OTHER PERSONS, FIRM OR CORPORATION OR OTHERWISE, USED EXCEPT TO THE EXTENT NECESSARY FOR AND THEN ONLY IN CONNECTION WITH THE PERFORMANCE AND/OR COMMISSION OF WORK OR PROPORTIONS RELATED TO A PROCUREMENT BEING EFFECTED BY THE UNITED STATES GOVERNMENT OR IN CONNECTION WITH THE MANUFACTURING OF THE UNITED STATES STOCK BY THE UNITED STATES GOVERNMENT. THE ADDRESSEE SHALL BE RESPONSIBLE FOR THE PROTECTION OF THIS INFORMATION AND WILL BE CONSIDERED IN VIOLATION OF THIS AGREEMENT IF IT DISCLOSES OR MAKES AVAILABLE TO ANY OTHER PERSONS, FIRM OR CORPORATION ANY OF THE INFORMATION AND/OR WHICH IS PROVIDED HEREON.

NOTES:

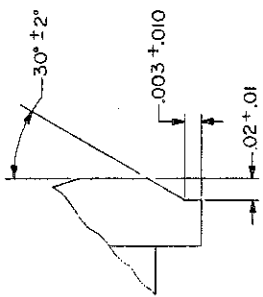
1. STEEL, COMPSN 1018 TO 1022, SPEC ASTM A408, OR SINTERED STEEL, GRADE 1, CLASS A, DENSITY TYPE II PER ASTM B484-70. SINTERED MAT'L SHALL BE SEALED WITH POLYESTER RESIN.
2. FINISH $125\sqrt{S}$.
3. BREAK ALL SHARP EDGES .005 +0/0 EXCEPT AS NOTED.
4. MIL-W-13865 APPLIES.



ALTERNATIVE DESIGN



SEE VIEW



VIEW A
ALTERNATIVE CONFIGURATION
NOT TO SCALE

DISTRIBUTION STATEMENT F
DISTRIBUTION IS AUTHORIZED TO DOD AGENCIES AND DOD
QUALIFIED U.S. ORNANCE CONTRACTORS, FURTHER DISTRIBU-
TION AS DIRECTED BY
*, OR HIGHER DOD AUTHORITY.

MECHANICAL PROPERTIES	YS	
	MIN	
	YS	
	MAX	
	EL 2	
	RA	
	BH	
	BH	

CONTRACT NO.:	DATE	15 SEP
PREPARED	BY	R. L. Thompson
CHECKED	BY	R. L. Thompson
ENGINEER	BY	H. J. Brown
SUBMITTED	BY	Loren Brown
APPROVED	BY	R. L. Thompson

10/1	19204	COSE TERTY NO.	EXPANING NO.	8448784	SHEET	OF 1
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U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PART NO. 8448784

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND

HOUSING, COVER LATCH

ING NO. 8448784

DATE 10/1

[illegible]

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51
W
T
N

- NOTE -
1. FINISH 125/✓ EXCEPT AS NOTED.
 2. BREAK ALL SHARP EDGES .010 MAX, EXCEPT AS NOTED. (A)
 3. HEAT TREATMENT: QUENCH (C) AND TEMPER TO HARDNESS SPECIFIED. .06 (A) (B)
 4. MIL-W-13855 APPLIES. (B)

5 4 3 2 1

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MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A		SEE ERR HQR 20778	5 OCT 72	SEE
	B		NOR W9S2009 80-02-13	80-05-15	SEE
	C		NORW2S2015 82 08 20	83 02 03	SEE
	D		NOR W25 0011 / 82-04-13	83-11-04	SEE
	E		(ECF W353120 / 83-07-07	91-10-11	SEE
	F		NOR G1S2018 91-07-08	920327	SEE
			NOR G253016 / 920213		SEE

SPRING, HELICAL, COMPRESSION

- WIRE DIAMETER .0120 ±.0003
- COIL DIAMETER (OD) .120 ±.002
- FREE LENGTH .413 REF
- TOTAL COILS 8 REF
- DIRECTION OF HELIX OPTIONAL
- LOAD AT COMPRESSED LENGTH OF .201 .80 LB ± .08 LB
- LOAD AT COMPRESSED LENGTH OF .377 LB/IN REF
- SPRING RATE .0984 MAX
- SOLID LENGTH CLOSED
- TYPE OF ENDS
- MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900°F ±10°F FOR ONE HOUR. AIR COOL.
3. FINISH 5.4.1 OF MIL-STD-171.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 ±.012.

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

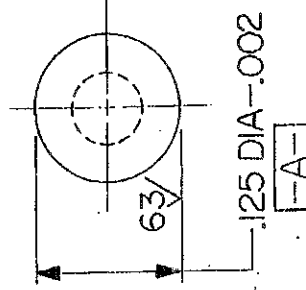
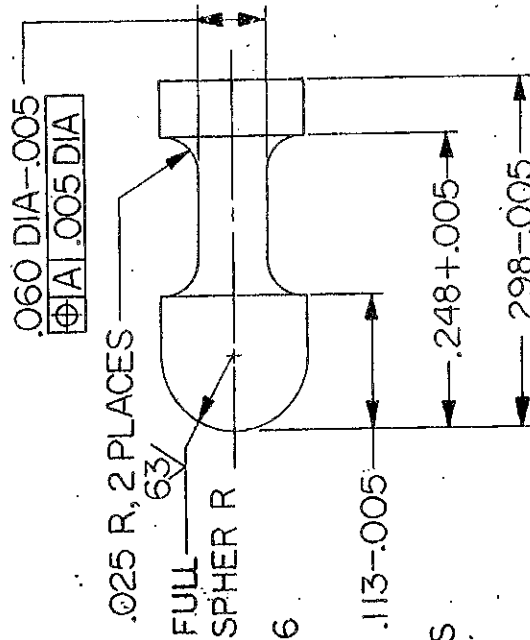
CURRENT FSCM NO. 19200
PART NO. 8448787

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS MIN		ANGLES		DATE	15 SEPT 72	U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
YS MAX		3 PLACE DECIMALS		PREP	R. Henry		
EL2		2 PLACE DECIMALS		CHK	G. Bunker		
RA		MATERIAL		ENGR	R. Bunker		
BH		SEE NOTE 1		SUBMITTED	R. Bunker		
RH	15N 84.5 MIN	FINAL PROTECTIVE FINISH		APPROVED	R. S. Henry		
NEXT ASSY USED ON		SEE NOTE 3					
APPLICATION							

SPRING, COVER LATCH
SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448787
SCALE — SHEET 1 OF 1

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1. FINISH ¹²⁵✓ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 MAX.
3. CARBURIZE .003 TO .006 TOTAL CASE DEPTH.
4. HEAT TREATMENT: QUENCH AND TEMPER TO SURFACE HARDNESS 15 N 90 MIN.
5. FINISH 5.3.12 OF MIL-STD-171.
6. MIL-W-13855 APPLIES.



U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
FOYER NEW JERSEY 07801

CURRENT DESIGN ACTIVITY FSCM NO.19200

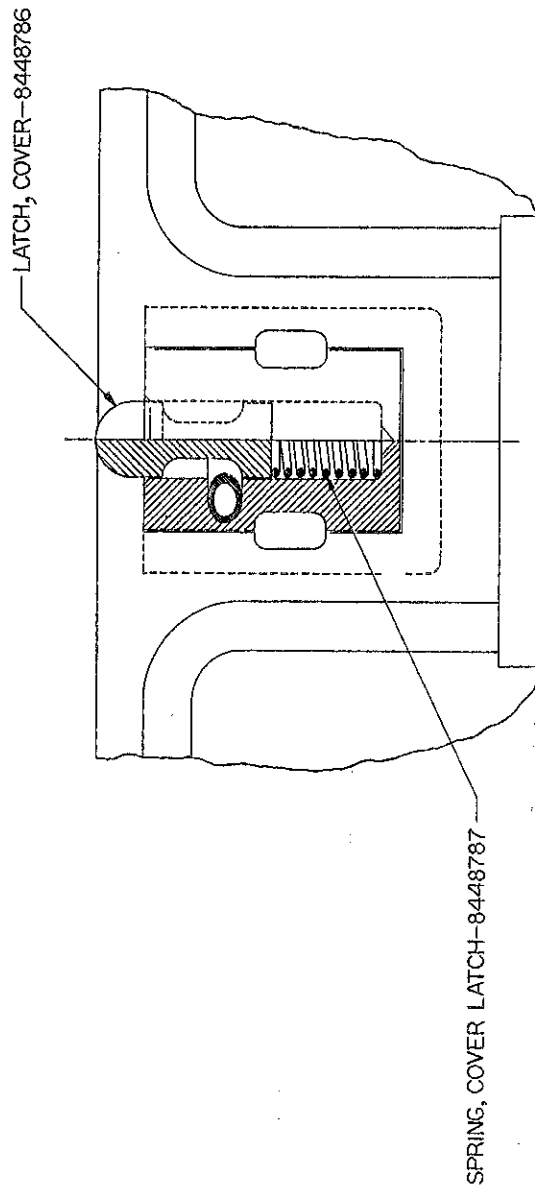
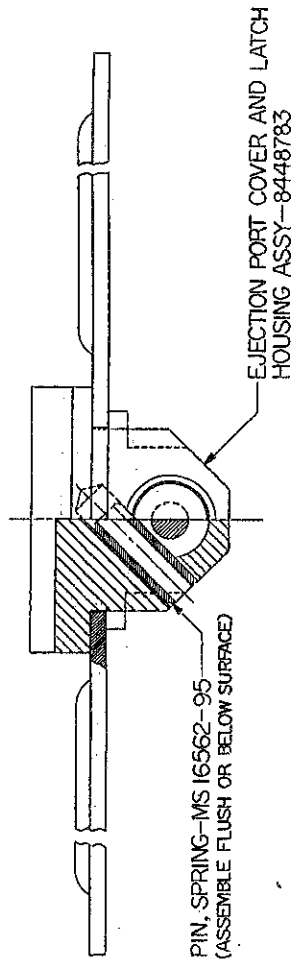
PART NO. 8448786

[illegible]

[illegible]

1. THE LOAD NECESSARY TO DEPRESS THE LATCH, COVER 8448786, .060 INCHES FROM ITS ASSEMBLED POSITION SHALL BE 12 ± 3 LB.

2. MIL-W-13855 APPLIES.



REVISIONS				
REV	ZONE	DATE	DESCRIPTION	APPROVED
1	A	21 SEP 72	REPLACES REV (A) W/ CHANGE A SEE ERR MOR 2048	
2	C	30-05-78	B MOR W9522009 80-02-13	
3	C	31 10 11	C MOR G152018 80-07-08	
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MANAGEMENT RESEARCH DEVELOPMENT AND ENGINEERING CENTER

USE PL-8448525		PART NO 8448525		DEPT OF THE ARMY S AND S COMMAND FORT MONMOUTH, NEW JERSEY	
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DISTRIBUTION STATEMENT E. FURTHER DISTRIBUTION
 ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD
 AUTHORITY 92-05-27

ASWE Form 403D 13 Nov 70

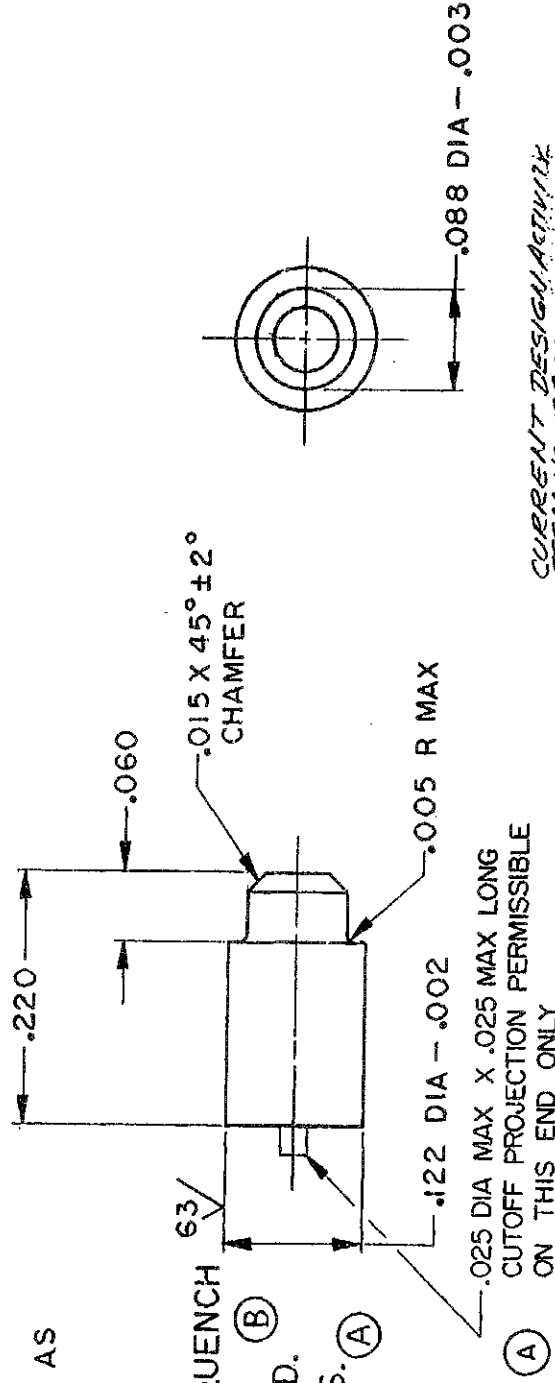
EDITION OF 29 JUL 69 MAY BE USED

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NOTE:

1. TUMBLE TO BREAK SHARP EDGES TO .005R + .005.
2. FINISH $125\sqrt{\text{V}}$ EXCEPT AS NOTED.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH AND TEMPER TO $63\sqrt{\text{V}}$ HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES. (A)



CURRENT DESIGN ACTIVE
FSCM NO. 19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DATE 27 APR 1970	
YS	MIN	TOLERANCES:		PREP	CHK	ENGR	DATE
YS	MAX	3 PLACE DECIMALS ± .005		CHK	CHK	ENGR	DATE
EL2	MAX	2 PLACE DECIMALS		CHK	CHK	ENGR	DATE
RA	MAX	MATERIAL		CHK	CHK	ENGR	DATE
BH	MAX	STEEL, CARBON, CMPSN		CHK	CHK	ENGR	DATE
RH	MAX	113.0 HIL 37 OR HIL 41		CHK	CHK	ENGR	DATE
NEXT ASSY		SPEC ASTM A1028		CHK	CHK	ENGR	DATE
APPLICATION		FINAL PROTECTIVE FINISH		CHK	CHK	ENGR	DATE
15N 725-76		SEE NOTE 3		CHK	CHK	ENGR	DATE
USED - ON		APPROVED		CHK	CHK	ENGR	DATE
APPROVED		APPROVED		CHK	CHK	ENGR	DATE
APPROVED		APPROVED		CHK	CHK	ENGR	DATE

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AMSWE Form 403C. 29 Jul 69

3

DISTRIBUTION STATEMENT F:
"FURTHER DISTRIBUTION ONLY AS
DIRECTED BY ASQNC-AR; 911113."

[illegible]

1. PLANE **CB** IS ESTABLISHED BY DIAMETERS **EC** AND WIDTH **ED**.
2. .005 MAX MISMATCH PERMISSIBLE BETWEEN SURFACES **EX** AND **EL**.
3. FINISH, 53.12 OF MIL-STD-171, BEFORE GRIT BLAST, MASK DIAMETER **FL**.
4. FINISH 125 EXCEPT AS NOTED.
5. ALL DIMENSIONS APPLY BEFORE FINISH.
6. BREAK SHAW." EDGES .005+.010 UNLESS OTHERWISE SPECIFIED.
7. MIL-W-13855 APPLIES. **C**

SWE Form 403F, 29 Jul 69

4

3

2

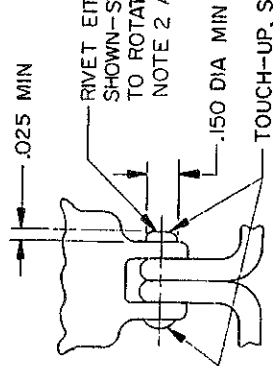
1

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NOTES:

1. AFTER SPREADING, THE RIVET SHALL BE REFINISHED (TOUCHED-UP) IN ACCORDANCE WITH PARA 3.5.5.3 OF MIL-W-13855, OR LACQUER, MIL-L-19538, CLASS I, COLOR BLACK 37038.
2. CRACKS PERMISSIBLE, PROVIDED THAT:
 - A. NO MORE THAN TWO CRACKS PER QUADRANT AND THREE PER RIVET APPEAR.
 - B. NO CRACK EXTENDS INTO THE TUBULAR PORTION OF THE RIVET.
 - C. NO BROKEN SECTIONS RESULT FROM ADJACENT CRACKS.
3. MIL-W-13855 APPLIES.



RIVET EITHER SIDE TO DIM. SHOWN-SWIVEL MUST BE FREE TO ROTATE AFTER RIVETING.
NOTE 2 APPLIES

VIEW A-A
SCALE 2/1

SEE PL-8448565

MECHANICAL PROPERTIES	
YS MIN	
YS MAX	
EL 2	
RA	
BH	M16
RH	M16AI

APPLICATION

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES
ANGLES: 3 PLACE DECIMALS
2 PLACE DECIMALS

MATERIAL

DATE 27 APR 70

PREPARED BY: [Signature]

CHECKED BY: [Signature]

ENGINEER: [Signature]

SUBMITTED BY: [Signature]

APPROVED BY: [Signature]

CONTRACT NO:

CURRENT DESIGN ACTIVITY FSCM NO. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

SIGHT AND GAS TUBE ASSY

SIZE: CODE IDENT NO. DRAWING NO.
C 19204 8448565

AMSWE Form 403C, 29 Jul 69

REVISIONS		DATE	APPROVED
MF	ZONE LTR	DESCRIPTION	
		REPLACES B8448565 REV(D)	
		W/CHANGES	
	A	(4) SEE EO HRD 02197-1	15 JUL 70 [Signature]
	B	(2) SEE ERR HQR 10730	26 MAY 71 [Signature]
	C	SEE ERR HQR 10842	14 SEP 71 [Signature]
	D	SEE ERR HQR 10862	8 OCT 71 [Signature]
	E	(2) SEE ERR HQR 20665	11 APR 72 [Signature]
	F	(2) SEE ERR HQR 20679	21 JUL 72 [Signature]
	G	SEE ERR HQR 20778	6 OCT 72 [Signature]
	H	NORW250020	82-06-09 [Signature]
	J	INORW25 0026	82-05-21 [Signature]

SIGHT, FRONT - 8448566

PIN, SPRING-MS16562-106

GAS TUBE ASSY - 8448567

RIVET - 8448697

SWIVEL, SLING - 8448571

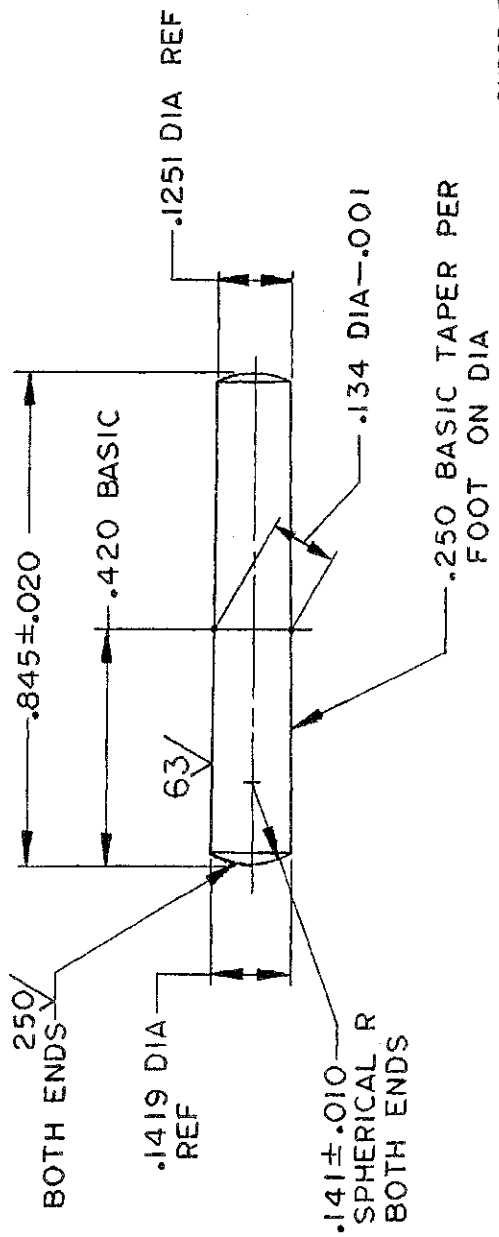
C 8448565

A

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- NOTE:
1. SUGGESTED HEAT TREAT:
LIQUID CARBURIZE AT
1550°F TO OBTAIN A
TOTAL CASE DEPTH OF
.010/.015.
 2. BREAK SHARP EDGES
.005±.010.
 3. STEEL, CMPSN 4027, 4028,
AND 4037, SPEC ASTM A 304
OR STEEL, CMPSN 1030,
1033, 1035, 1037, AND 1038,
SPEC ASTM A 108.
 4. MIL-W-13855 APPLIES.



CURRENT

CODE IDENT NO.
19200

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

CONTRACT NO.		DATE 27 APR 1970	
PREP	CHK	ENGR	SUBMITTED
RGD	RGD	RGD	RGD
APPROVED		APPROVED	
R. P. Henry		R. P. Henry	
U. S. ARMY WEAPONS COMMAND		U. S. ARMY WEAPONS COMMAND	
ROCK ISLAND, ILLINOIS 61201		ROCK ISLAND, ILLINOIS 61201	
PIN, TAPER,		PIN, TAPER,	
FRONT SIGHT		FRONT SIGHT	
SIZE B		SIZE B	
CODE IDENT NO. 19204		CODE IDENT NO. 19204	
DRAWING NO. 8448575		DRAWING NO. 8448575	
SCALE 5/1		SCALE 5/1	
SHEET 1 OF 1		SHEET 1 OF 1	

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AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY; 92-86-22.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES:	
ANGLES ±		3 PLACE DECIMALS ± .005	
2 PLACE DECIMALS ±		MATERIAL	
9390001 M4		9390001 M4	
F8448601 M16		F8448601 M16	
F8448522 M16A1		F8448522 M16A1	
NEXT ASSY		USED ON	
APPLICATION		APPLICATION	
R4 ISN 89-91		R4 ISN 89-91	
MIL-STD-171		MIL-STD-171	
5.3.12 OF		5.3.12 OF	
FINAL PROTECTIVE FINISH		FINAL PROTECTIVE FINISH	

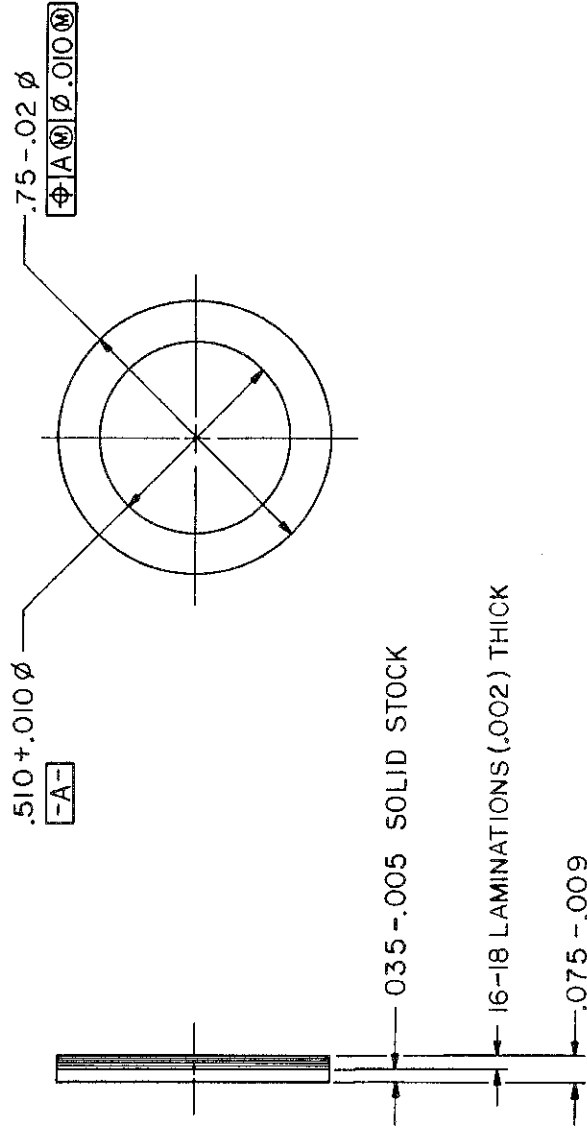
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NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

NOTES: -

- 1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.
- 2 - MATERIAL: - LAMINATED SHIM STOCK PER MIL-S-22499, COMPOSITION 3, TYPE TO BE AS SHOWN, CLASS 1.
- 3 - BREAK SHARP EDGES .005 $\pm$.010 UNLESS OTHERWISE SPECIFIED.
- 4 - FINISH $\sqrt{125}$ ALL SURFACES.

5-



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE ERRW252013	820614	1/16/82-44
A	NORW450030/84-11-15	85-04-02	1/16/82-44
B	NOR GIS2018 91 07 08	91-10-11	1/16/82-44
C	NOR G2S3057/920716	921030	1/16/82-44
D	NOR G3S3132/940104	940426	1/16/82-44
E	NOR G5S3014 950417	960521	RLV
F	NOR L7S3030 970530	970703	HJS

PART NO. 9349052

8448522		M16A1		MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 82-02-26		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801	
8448501		M16		YF		DIMENSIONS ON DECIMALS $\pm$		DRAFTSMAN EJZ		CHECKER DEW	
9327227		M231FPW		TS		FRACTIONS $\pm$		ENGR 1/16/82-44		ENGR	
9390001		M4		E2		ANGLES $\pm$		ENGR		ENGR	
9349050		M16A2E3		BA				ENGR		ENGR	
		M16A2		BH				ENGR		ENGR	
NEXT ASSY		USED ON		RH				ENGR		ENGR	
APPLICATION								ENGR		ENGR	

SIZE FSCM NO.
C 19200

9349052

SCALE 4/1 UNIT WT.

SHEET 1 OF 1

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 301 (17-7PH), COLD DRAWN, ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITN CH900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003 ± .012.

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____ .0180 ± .0005
COIL DIAMETER (OD) _____ .115 ± .003
FREE LENGTH _____ .75 REF
TOTAL COILS _____ 20 REF
DIRECTION OF HELIX _____ OPTIONAL
LOAD AT COMPRESSED LENGTH OF .557 AFTER SET _____ 1.78 LB ± .18 LB
LOAD AT COMPRESSED LENGTH OF _____
SPRING RATE _____
SOLID LENGTH _____ 390 MAX
TYPE OF ENDS _____ CLOSED
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

CURRENT DESIGN ACTIVITY
FSCM NO. 19200

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

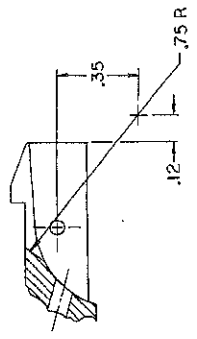
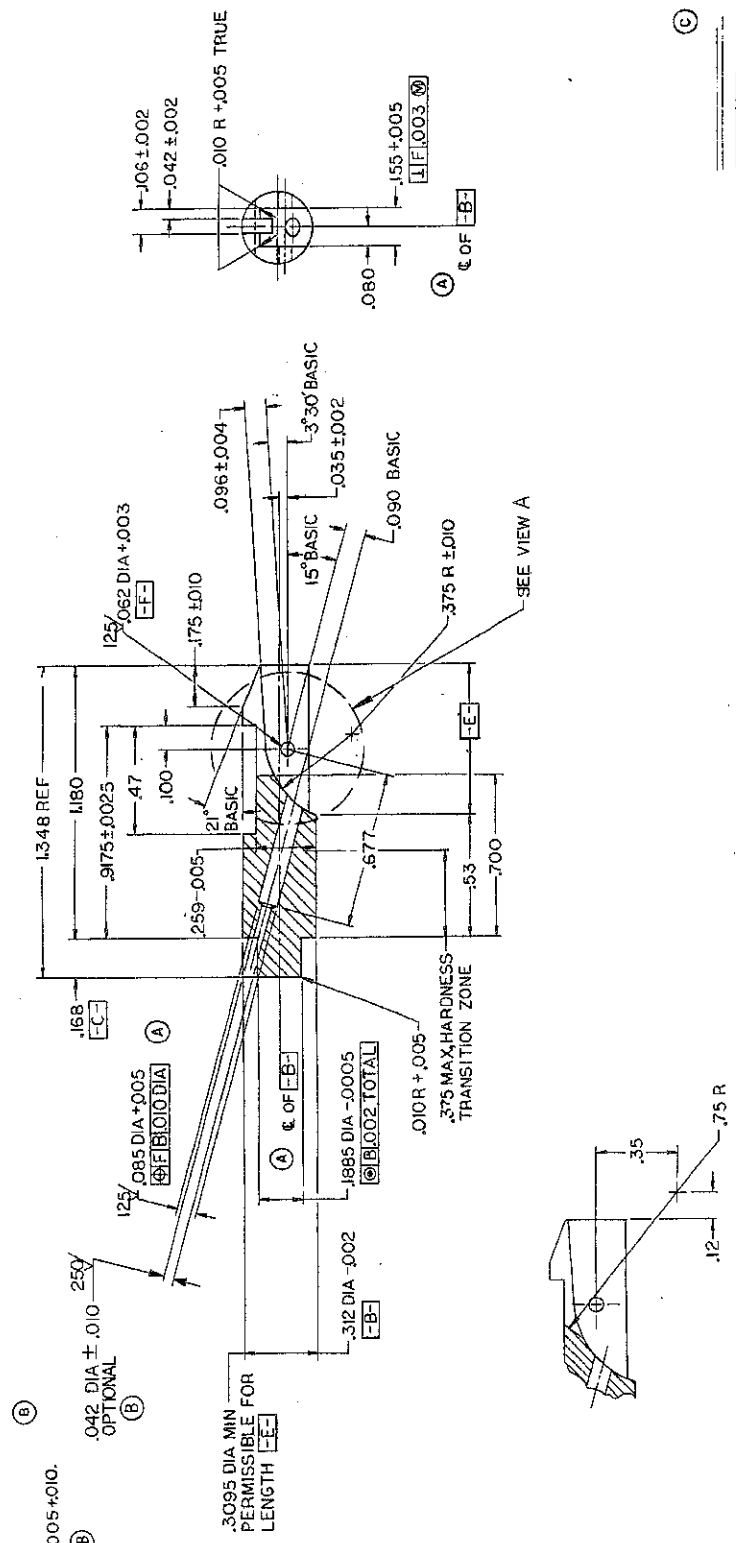
PART NO. 8448574

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
YS MIN		TOLERANCES:	DATE 27 APR 70	PREP	P. Henry	SPRING, FRONT	
YS MAX		ANGLES ±	CHK	CHK	G. Dwyer	SIGHT, DETENT	
EL 2		3 PLACE DECIMALS ± .005	ENGR	ENGR	R. E. B. P. Buntin	SIZE CODE IDENT NO. DRAWING NO.	
RA		2 PLACE DECIMALS ±	SUBMITTED	SUBMITTED		B 19204	8448574
BH		MATERIAL	APPROVED	APPROVED		SCALE	
RH 15N 845 MIN		SEE NOTE 1				SHEET 1 OF 1	
APPLICATION		FINAL PROTECTIVE FINISH	5.41 OF MIL-STD-171				
NEXT ASSY		USED ON					
APPLICATION		USED ON					

8 7 6 5 4 3 2 1

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- NOTE:
1. FINISH 63V EXCEPT AS NOTED.
 2. ANNEAL FOR LENGTH [C-I].
 3. BREAK SHARP EDGES .005 ± .010.
 4. MIL-W-13855 APPLIES.



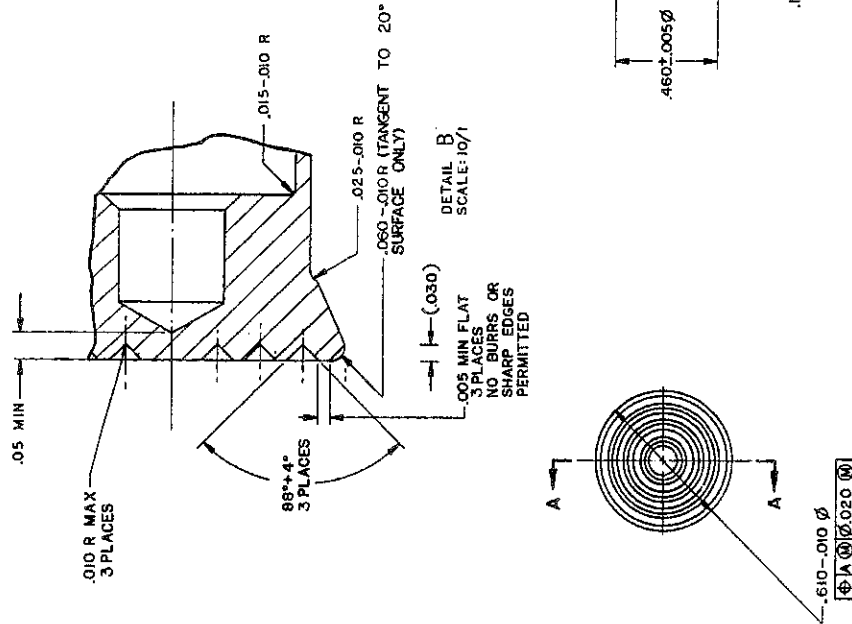
VIEW A
 ALTERNATIVE DESIGN

REV	DATE	DESCRIPTION	BY	APP'D
1	27 APR 70	REDESIGN FROM COLT'S DRAWING		
2	27 APR 70	1.0 SEE E.O. 11652-2		
3	27 APR 70	2.0 SEE E.O. 11652-2		
4	27 APR 70	3.0 SEE E.O. 11652-2		
5	27 APR 70	4.0 SEE E.O. 11652-2		
6	27 APR 70	5.0 SEE E.O. 11652-2		
7	27 APR 70	6.0 SEE E.O. 11652-2		
8	27 APR 70	7.0 SEE E.O. 11652-2		
9	27 APR 70	8.0 SEE E.O. 11652-2		
10	27 APR 70	9.0 SEE E.O. 11652-2		
11	27 APR 70	10.0 SEE E.O. 11652-2		
12	27 APR 70	11.0 SEE E.O. 11652-2		
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18	27 APR 70	17.0 SEE E.O. 11652-2		
19	27 APR 70	18.0 SEE E.O. 11652-2		
20	27 APR 70	19.0 SEE E.O. 11652-2		
21	27 APR 70	20.0 SEE E.O. 11652-2		
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28	27 APR 70	27.0 SEE E.O. 11652-2		
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47	27 APR 70	46.0 SEE E.O. 11652-2		
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210	27 APR 70	209.0 SEE E.O. 11652-2		
211	27 APR 70	210.0 SEE E.O. 11652-2		
212	27 APR 70	21		

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

NOTES: -

- 1 - SPEC. MIL-W-13055 AND ANS I Y14.5-73
APPLY.
- 2 - MATERIAL - STEEL BAR, ASTM 108, CHPSN 137, OR J141.
ANNEALED AND COLD DRAWN BRINELL HARDNESS 286 MAX.
- 3 - BREAK SHARP EDGES .003±.010 UNLESS
OTHERWISE NOTED.
- 4 - ALL DIAMETERS $\left(\frac{\phi}{1.00} \pm .010 \right)$ UNLESS
OTHERWISE NOTED.
- 5 - FINISH $\frac{125}{\nabla}$ ALL SURFACES UNLESS
OTHERWISE NOTED.



SECTION A-A

[illegible]

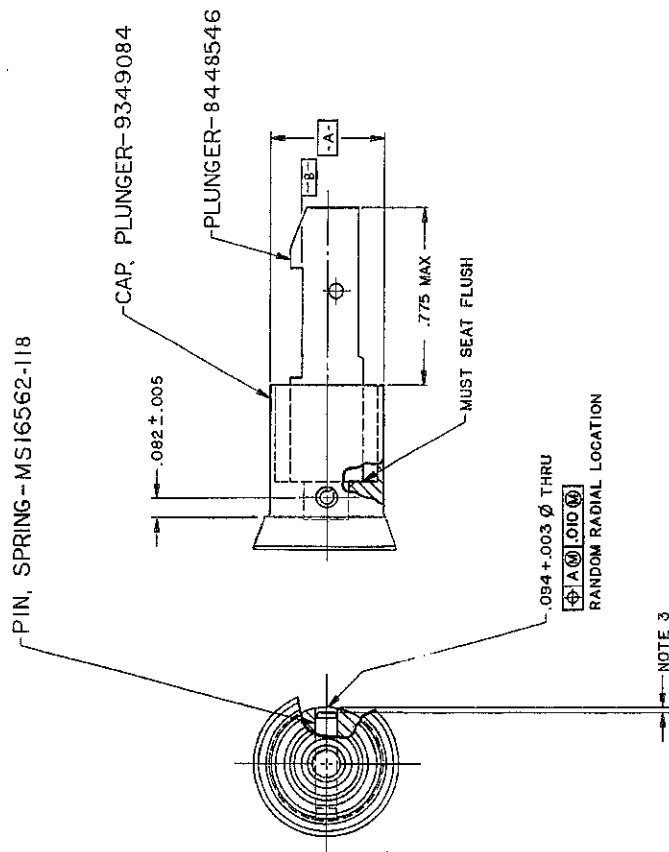
DISTRIBUTION STATEMENT F.
FURTHER DISSEMINATION ONLY AS DIRECTED
BY ARDEC, AMSTA-ARA-ESW, ROCK ISLAND, IL
ASQNC-ARI-CT 911025 OR HIGHER DOD
AUTHORITY.

NOTE: INSERTED AT TOP AND BOTTOM

THE ABOVE DOCUMENTS, AND ALL INFORMATION THEREIN IS PROPRIETARY TO CYBER RESEARCH, INC. AND SHALL NOT BE REPRODUCED, DISSEMINATED OR USED IN ANY MANNER BY ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF CYBER RESEARCH, INC. ANY REPRODUCTION OR USE OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF CYBER RESEARCH, INC. SHALL BE CONSIDERED A VIOLATION OF THE PATENT RIGHTS OF CYBER RESEARCH, INC. AND SHALL BE SUBJECT TO THE FULL AND EXCLUSIVE REMEDY OF CYBER RESEARCH, INC. UNDER THE PATENT LAWS OF THE UNITED STATES AND ANY APPLICABLE INTERNATIONAL PATENT LAWS. ANY REPRODUCTION OR USE OF THIS DOCUMENT WITHOUT THE WRITTEN PERMISSION OF CYBER RESEARCH, INC. SHALL BE CONSIDERED A VIOLATION OF THE PATENT RIGHTS OF CYBER RESEARCH, INC. AND SHALL BE SUBJECT TO THE FULL AND EXCLUSIVE REMEDY OF CYBER RESEARCH, INC. UNDER THE PATENT LAWS OF THE UNITED STATES AND ANY APPLICABLE INTERNATIONAL PATENT LAWS.

NOTES:—

- 1-SPEC MIL-W-38855 AND ANSI Y14.5-73 APPLY.
- 2-BREAK SHARP EDGES .005+0.0 EXCEPT AS NOTED.
- 3-INSERT SPRING PIN SO THAT ENDS ARE BELOW SURFACE ON EITHER SIDE AS SHOWN.
- 4-DIMENSIONS APPLY BEFORE PROTECTIVE FINISH.
- 5-FINISH $125\sqrt{\text{ }}$ ALL SURFACES.
- 6-PROTECTIVE FINISH:- 5.3.1.2 OF MIL-STD-171.



REVISING			
SYMBOL	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE EAW252013	23-06-14	14-06-14
A	NORW350011/83-03-09	83-11-08	14-06-14
B	NORW353142/783-05-29	84-06-62	14-06-14
C	NORW45 0030/784-11-15	85-04-02	14-06-14
D	NORW555800/850605	86-06-02	14-06-14
E	NORW615026	91-07-08	14-06-14

[illegible]

[illegible]

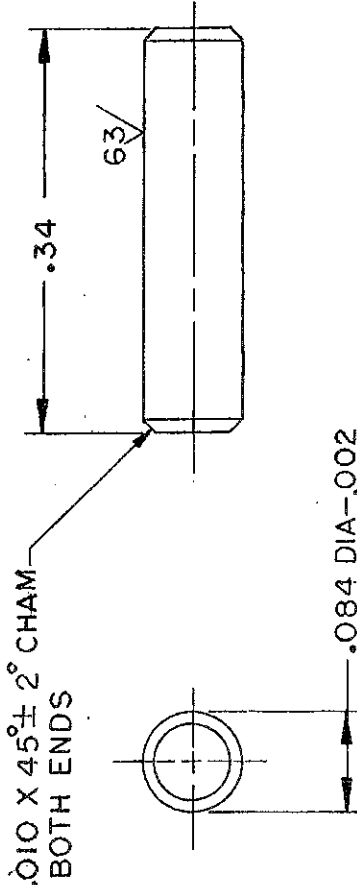
125/ EXCEPT AS
NOTED.

LIQUID CARBURIZE AT
1550°F. TO OBTAIN A
TOTAL CASE DEPTH OF
.010 TO .015 • HARDEN
AND TEMPER AT MIN
OF 400°F.

4. MIL-W-13855 APPLIES.

WIRE, STEEL, CMPSN 1018 OR 1020 OR 1022, ASTM A108.

ALTERNATE MATERIAL: BAR, STEEL,
CMPSN 1117, ASTM A108.



DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASONC-AR OR HIGHER DOD AUTHORITY: 92-06-22.

[illegible]

AMSWE Form 403B, 29 Jul 69

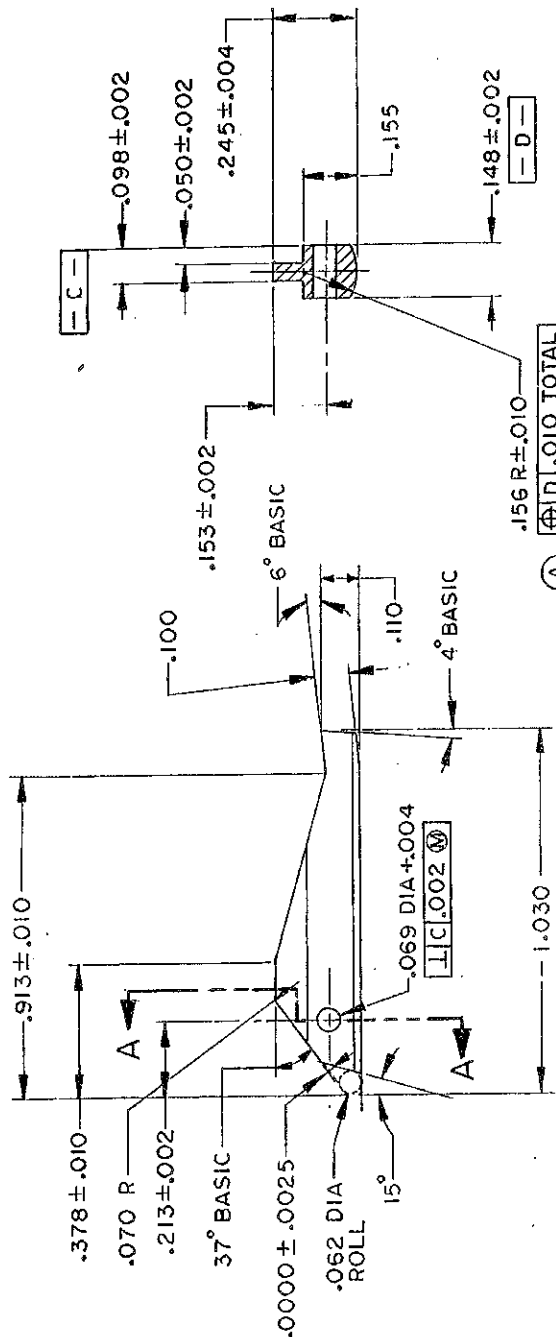
7.18

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NOTE:-

1. FINISH $63\sqrt{}$
2. BREAK ALL EDGES .005 $\pm$.005.
3. STEEL, GMPN 1137, 1141, OR 1144, SPEC ASTM A108.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.



SECTION A-A

DISTRIBUTION STATEMENT E, FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS MIN		TOLERANCES:		DATE 27 APR 1970	
YS MAX		ANGLES: 1°		PREPARED BY RGA	
EL2		PLACES DECIMALS: 2		CHECKED BY RGA	
RA		PLACES DECIMALS: 2		ENGINEER BY RGA	
BH		PLACES DECIMALS: 2		SUBMITTED BY RGA	
RH	C44-48	PLACES DECIMALS: 2		APPROVED BY RGA	
APPLICATION		MATERIAL		DEPT OF THE ARMY	
NEXT ASSY USED ON		SEE NOTE 3		US ARMY WEAPONS COMMAND	
MIL-STD-171		9349086 M4		ROCK ISLAND, ILLINOIS, 61201	
C8448541 M16A1		C8448541		PAWL, FORWARD ASSIST	
C44-48		C8448541		SIZE CODE IDENT NO. DRAWING NO.	
C44-48		C8448541		C 19204 8448543	
C44-48		C8448541		SHEET 1 OF 1	
C44-48		C8448541		CDI	

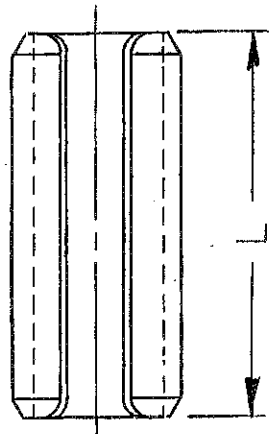
CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICA TINY, ARSENAL, NEW JERSEY 07806-3000

NOTICE RESTRICTED AS TO USE AND DISCLOSURE
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NOTE:

- 1. BREAK ALL SHARP EDGES
.003+-.012.

PART NO.	MS MODIFIED	DIM L	NEXT ASSY
8448521-1	MS16562-130	.719 ±.010	C8448615
8448521-2	MS16562-97	.267 ±.010	B8448517 D9349086



MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
M			REPLACES COLT'S PART NUMBERS 95103 95113 AND 95138-1 FROM COLT'S DRAWING D95101 REV C	27 APR 70	
A	(4)	SEE	EO HRD 02197-3	15 JULY 70	3845
B		SEE	ERR HQR 10822	9 AUG 71	803
C		SEE	ERR HQR 10836	13 SEP 71	803
D		NOR	W952009 80-02-13	80-05-16	803
E		NOR	W250020 82-06-09	83-02-03	LAH 13/14
F		NOR	W453048 / 84-10-09	85-02-14	LAH 13/14
G		NOR	GIS2018 / 91-07-08	91-10-11	RR 56

CURRENT
FSCM NO.
19200

ALTERED ITEM DRAWING

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS		TOLERANCES:		DATE	27 APR 1970
MIN		ANGLES:		PREP	8524
YS	8448517	3 PLACE DECIMALS:		CHK	2824
MAX	B8448517	2 PLACE DECIMALS:		ENGR	Robert B. Bittler
EL 2		MATERIAL		SUBMITTED	
RA				APPROVED	F.P. Williams
BH	SEE TABLE M16A1	FINAL PROTECTIVE FINISH			R. J. Henry
RH	NEXT ASSY	USED ON			
	APPLICATION				

PIN, SPRING

SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448521

SCALE NONE

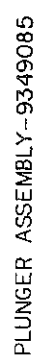
SHEET 1 OF 1

5	4	3	2	1																																				
NOTICE: RESTRICTED AS TO USE AND DISCLOSURE THIS DRAWING IS THE PROPERTY OF THE U.S. ARMY AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. ARMY WEAPONS COMMAND, ROCK ISLAND, ILLINOIS, 61201. IT IS THE POLICY OF THE U.S. ARMY TO OBTAIN THE BEST AVAILABLE MATERIALS AND METHODS OF MANUFACTURE FOR THE PRODUCTION OF WEAPONS AND EQUIPMENT. THE U.S. ARMY WEAPONS COMMAND, ROCK ISLAND, ILLINOIS, 61201, IS THE AUTHORITY FOR THE SELECTION OF MATERIALS AND METHODS OF MANUFACTURE. THE U.S. ARMY WEAPONS COMMAND, ROCK ISLAND, ILLINOIS, 61201, IS NOT RESPONSIBLE FOR THE SELECTION OF MATERIALS AND METHODS OF MANUFACTURE BY THE CONTRACTOR.																																								
REVISIONS <table border="1"><thead><tr><th>MF</th><th>ZONE</th><th>LTR</th><th>DESCRIPTION</th><th>DATE</th><th>APPROVED</th></tr></thead><tbody><tr><td></td><td></td><td></td><td>REDRAWN FROM COLT'S DRAWING C 50381 REV A</td><td>27 APR 70</td><td></td></tr><tr><td></td><td></td><td>A</td><td>(1) SEE EO HRD 02197-3</td><td>15 JULY 70</td><td></td></tr><tr><td></td><td></td><td>B</td><td>(2) SEE ERR HQR 20778</td><td>6 OCT 72</td><td></td></tr><tr><td></td><td></td><td>C</td><td>NOR W250011 / 82-04-13 (ECP W353120 / 83-07-07)</td><td>83-11-04</td><td></td></tr><tr><td></td><td></td><td>D</td><td>NOR G852005 / 880310</td><td>880927</td><td></td></tr></tbody></table>					MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED				REDRAWN FROM COLT'S DRAWING C 50381 REV A	27 APR 70				A	(1) SEE EO HRD 02197-3	15 JULY 70				B	(2) SEE ERR HQR 20778	6 OCT 72				C	NOR W250011 / 82-04-13 (ECP W353120 / 83-07-07)	83-11-04				D	NOR G852005 / 880310	880927	
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		C	NOR W250011 / 82-04-13 (ECP W353120 / 83-07-07)	83-11-04																																				
		D	NOR G852005 / 880310	880927																																				
NOTES: 1. WIRE, STEEL, CARBON, SPRING, MUSIC, ASTM-A228 (A) 2. STRESS RELIEVE. HOLD AT 475°F ± 25°F FOR 30 MINUTES. 3. MIL-W-13855 APPLIES. (B) 4. BREAK SHARP EDGES .003 ± .012																																								
WIRE DIA: .0140 ± .0003 TOTAL COILS: 10.5 REF DIRECTION OF HELIX: OPTIONAL LOAD AT COMPRESSED LG OF .205 IN. = 1.75 LBS ± .25 LBS SOLID LENGTH: .170 MAX TYPE OF ENDS: PLAIN CRIMPED AS SHOWN MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572 (B)																																								
SPRING DATA WIRE DIA: .0140 ± .0003 TOTAL COILS: 10.5 REF DIRECTION OF HELIX: OPTIONAL LOAD AT COMPRESSED LG OF .205 IN. = 1.75 LBS ± .25 LBS SOLID LENGTH: .170 MAX TYPE OF ENDS: PLAIN CRIMPED AS SHOWN MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572 (B)																																								
CRIMP TO .060 BOTH ENDS .290 FREE LENGTH AFTER SETTING, REF .079-.005																																								
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201 SPRING, BOLT SIZE CODE IDENT NO. DRAWING NO. B 19204 8448542 SCALE 10/1 SHEET 1 OF 1 CDI																																								

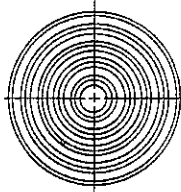
NOTES: —

1-SPEC. MIL-W-13855 AND ANSI Y14.5-73
APPLY.

2 - INSERT ROLL PIN SUCH THAT ENDS ARE FLUSH WITH OR BELOW SURFACE ON BOTH SIDES AS SHOWN.



—SPRING, BOLT- 8448542



-PAWL, FORWARD ASSIST-- 8448543

PIN ROLL-8448521-2

-DETENT, PAWL-8448544



-NOTE 2-

SECTION A-A

LINE	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE ERW52013	8/20/14	8/20/14
A	NOR W35 0011 / 83-03-08	83-11-08	8/20/14
B	NOR W25 3258 / 82-12-30	84-09-04	8/20/14
C	NOR W45 0030 / 84-11-15	85-04-02	8/20/14
D	NOR 6753018 / 87-03-12	88-01-14	8/20/14
E	NOR 6152018 / 91-07-08	91-01-11	8/20/14

FOR ENGINEERING PARTS LIST SEE PL 9349086

PART NO. 9349086

MENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

FORWARD ASSIST ASSEMBLY

SIZE	FSCM NO.	9349086
D	19300	

00761	SCALE 4 / 1	UNIT WT.
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RECEIVED BY AIR 77 JULY 20 1968 FROM THE U.S. AIR FORCE, WASHINGTON

TECHNICAL DATA PACKAGE LIST 8448535
 DOCUMENT NUMBER D 8448535
 SPECIFICATION MIL-W-63150
 NATIONAL STOCK NUMBER
 DRUM, WINDAGE

ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER
 DOVER, NEW JERSEY 07801-5001
 CAGE 19200

19 NOV 87

SHEET 1 OF 4

REQUEST/PRON 811713

PRODUCT DRAWINGS AND ASSOCIATED DOCUMENTS

CAGE	PRE-DRAWING/DOCUMENT	SHEET	REV	DOCUMENT	SEC	DATE	CL	DOCUMENT TITLE	NOTE
CD	FIX	SIZE	NUMBER	ND	OF	SYM			

19204	D	8448535	1	1	D	02/06/85	LMTD	DRUM, WINDAGE	
19204	PS	8448535	1	1	C	06/11/80	LMTD	PKG DATA SHT - DRUM, WINDAGE	
19204	SQ	8448535	1	3	D	02/06/85	LMTD	SQAP - DRUM, WINDAGE	
			2	3	D	02/06/85			
			3	3	D	02/06/85			
			1	1		11/24/86		GEOMETRIC SYMBOLS FOR DIMENSIONING AND TOLERANCING	

F 12579607

TECHNICAL DATA PACKAGE LIST 8448535
 DOCUMENT NUMBER D 8448535
 SPECIFICATION MIL-W-63150
 NATIONAL STOCK NUMBER
 DRUM, WINDAGE

ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER
 DOVER, NEW JERSEY 07801-5001
 CAGE 19200

19 NOV 87

SHEET 2

REQUEST/PRON 811713

INSPECTION EQUIPMENT DRAWINGS AND ASSOCIATED DOCUMENTS

CAGE PRE- CD	DRAWING/DOCUMENT FIX SIZE	NUMBER	SHEET NO - OF	REV DOCUMENT SYM	SEC DATE	CL	DOCUMENT TITLE	NOTE
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19204	D 8443613	1	1	B	12/21/73		GAGE, LOCATION	
19204	D 8443856	1	1	B	12/21/73		GAGE, LOCATION	
19204	EL 8448535	1	1		02/05/75	LMTD	IEL - DRUM, WINDAGE	

TECHNICAL DATA PACKAGE LIST 8448535
 DOCUMENT NUMBER D 8448535
 SPECIFICATION MIL-W-63150
 NATIONAL STOCK NUMBER
 CRUM, WINGAGE
 ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER
 DOVER, NEW JERSEY 07801-5001
 CAGE 19200
 REQUEST/PRON 811713
 SHEET 3
 19 NOV 87

SPECIFICATIONS AND STANDARDS

QPL	DOCUMENT NUMBER	REV AND INT	SYN NO	CHG	DATE	DOCUMENT TITLE	NOTE
Q	VV-L-800	09/15/86	C 1			LUBRICATING OIL, GENL PURPOSE PRESERVATIVE	*
	PPP-B-636	01/20/82	J 1			BOX, SHIPPING, FIREBOARD	*
	PPP-T-76	08/02/84	C			TAPE, PRESSURE-SENS ADH PAPER, WATER RES	*
	FED-STD-791	09/30/86	C			LUBRICANTS, LIQUID FUELS, REL PROD, MTHD OF TSTG	*
	MIL-P-116	04/11/85	H 1			METHOD OF PACK PRESERVATION	*
	MIL-P-117	07/15/75	E 1			BAG, SLEEVE & TUBING, INTERIOR PACKAGING	*
Q	MIL-P-3420	02/20/85	E 2			PACKAGING MATERIALS, VOLATILE CRSN INHIBITOR, TREATED	*
	MIL-G-10944	02/19/82	B 3			GAGES, DIMENSIONAL CONTROL	*
	MIL-K-13855	10/09/84	D			WEAPONS, SMALL ARMS AND AIRCRAFT ARMAMENT SYS-GEN SPEC	*
	MIL-P-14232	09/02/81	E 2			PARTS, EQUIPMENT AND TOOLS FOR ARMY MATERIAL, PKG OF	*
	DOD-P-16232	11/07/78	F			PHOSPHATE COATINGS, HEAVY, MANGANESE OR ZINC BASE	*
	MIL-P-16232					(REPLACED BY DOD-P-16232)	
	MIL-W-63150	09/15/81	1			WEAPONS AND SPRT MATERIEL, STD QA PROV FOR	*
	MIL-STD-105	03/20/84	D 2			SMPLG PROCEDURES & TABLES FOR INSPECTION BY ATTRIBUTES	*
	MIL-STD-129	11/05/86	J 1			MARKING FOR SHIPMENT AND STORAGE	*
	MIL-STD-171	12/17/85	D 3			FINISHING OF METAL AND WOOD SURFACES	*
	MIL-STD-1189	09/04/84	A			STANDARD DEPARTMENT OF DEFENSE BAR CODE SYMBOLOLOGY	*
	ANSI-B46.1	00/00/79				SURFACE TEXTURE	**
	ANSI-B47.1	00/00/81				GAGE BLANKS	**
	CS8					(REPLACED BY ANSI-B47.1)	
	ANSI-Y14.5	00/00/73				DIMENSIONING AND TOLERANCING FOR ENGINEERING DRAWINGS	**
	ASTM-A108	00/00/81				STEEL BARS, CARBON, COLD FINISHED, STD QUAL, SPEC FOR	**
	ASTM-B310	00/00/83				SINTERED CARBON STEEL STRUCTURAL PARTS SPEC FOR	**
	ASTM-D3951	00/00/92				STANDARD PRACTICE FOR COMMERCIAL PACKAGING	**

* - NOT FURNISHED - TO BE OBTAINED FROM C.O. NAVAL PUBLICATIONS AND FORMS CTR., 5801 Tabor Ave., PHILA., PENNA., 19120, ATTN. CODE 105. IF NOT AVAILABLE, IMMEDIATELY ADVISE THE PROCURING CONTRACTING OFFICER.

Q - THE LETTER (Q) BEFORE THE SPECIFICATION NUMBER INDICATES THAT A QUALIFIED PRODUCTS LIST IS REQUIRED. THE NUMBER OF THE QPL IS THE SAME AS THE NUMBER OF THE SPECIFICATION.

** - NOT FURNISHED - COMMERCIAL SPECIFICATIONS AND STANDARDS MAY BE OBTAINED FROM THE PUBLISHERS. THEY ARE NOT AVAILABLE FROM GOVERNMENT SOURCES.

TECHNICAL DATA PACKAGE 8448535
DOCUMENT NUMBER D8448535
SPECIFICATION MIL-W-63150
NATIONAL STOCK NUMBER
DRUM, WINDAGE

U. S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801- 5001
FSCN 19200

DATE 19 Nov 87
SHEET 4 of 4

REQUEST/PRON 811713

3. ENGINEERING CHANGES AND ADDITIONS:

a . THE FOLLOWING ENGINEERING CHANGE PROPOSAL FORMS A PART OF THIS TECHNICAL DATA PACKAGE:

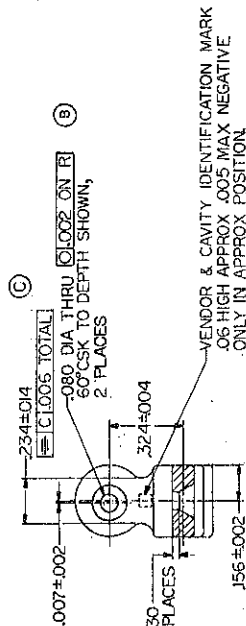
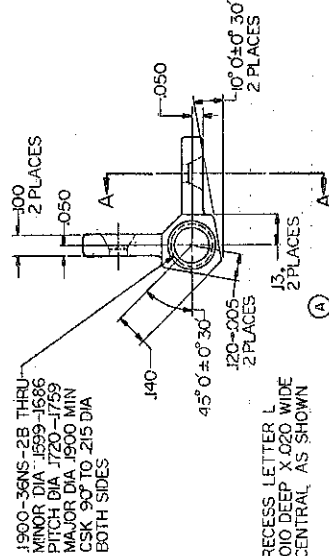
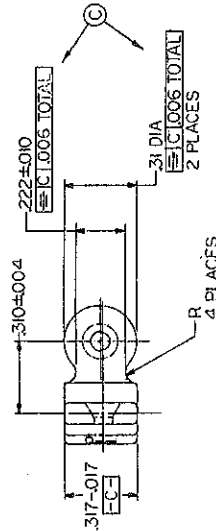
ECP NO	NO OF CARDS
6782043	<u>1</u>

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NOTES:

1. STEEL, INVESTMENT CASTING, CMPSN IC 4130, SPEC MIL-S-22141, EXCEPT THAT SILICON CONTENT SHALL BE .20 TO .70%.
2. CLASSIFICATION AND INSPECTION OF CASTINGS SHALL BE IN ACCORDANCE WITH CLASS 2, GRADE B, MIL-STD-2075, WITH FINISH $12\sqrt{R}$ EXCEPT AS NOTED.
3. ALL EDGES AND FILLETS ARE .005 TO .020 R. .005 NEGATIVE.
4. PARTING LINE FLASH TO BE .005 MAX.
5. MIL-W-13855 APPLIES. (A)



SECTION A-A

SECTION A-A

SECTION A-A

SECTION A-A

SECTION A-A

SECTION A-A

SECTION A-A

SECTION A-A

REV	DATE	DESCRIPTION	APPROVED
1	27 APR 70	FROM COLT'S DRAWINGS	
2	15 OCT 70	REV 8	
3	25 APR 71	REV 9	
4	15 OCT 71	REV 10	
5	15 OCT 72	REV 11	
6	15 OCT 73	REV 12	
7	15 OCT 74	REV 13	
8	15 OCT 75	REV 14	
9	15 OCT 76	REV 15	
10	15 OCT 77	REV 16	
11	15 OCT 78	REV 17	
12	15 OCT 79	REV 18	
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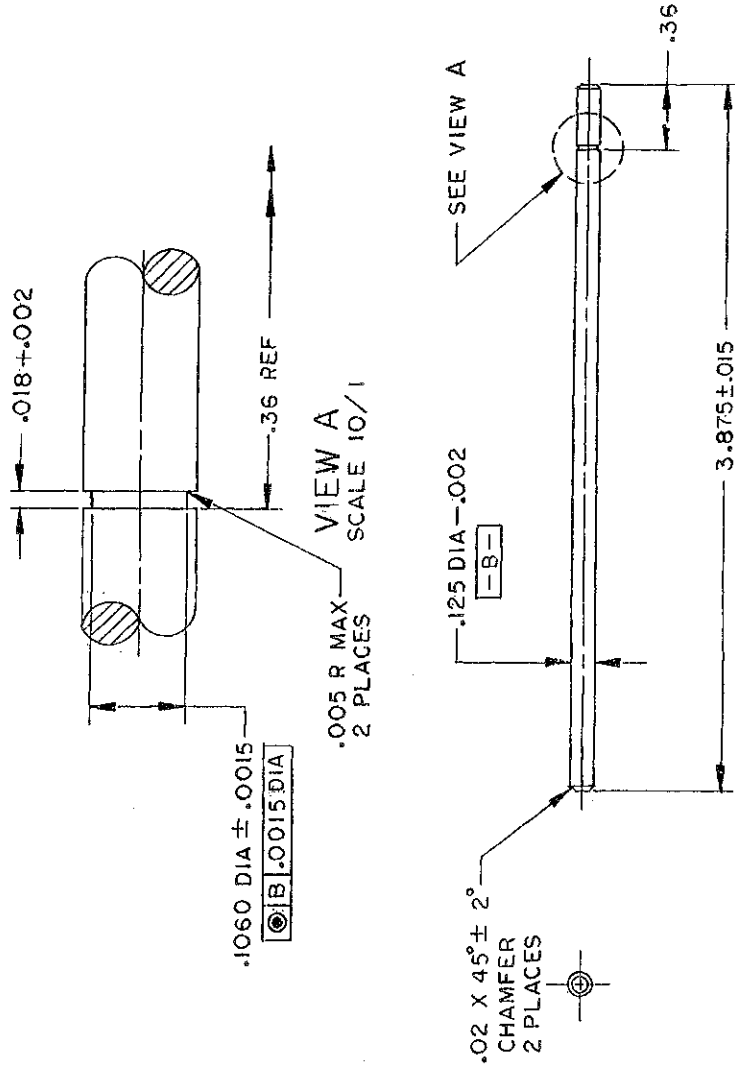
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NOTE:

1. STEEL, COLD FINISHED, AISI 1018, 1112, OR 1215, SPEC ASTM A108.
2. FINISH $\frac{63}{\sqrt{}}$.
3. BREAK SHARP EDGES .003 MAX.
4. MIL-W-13855 APPLIES
5. HEAT TREAT: CARBURIZE .003 TO .008 TOTAL CASE DEPTH, HARDNESS SHALL BE R15N 80-87.



DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY, 92-46-72.

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
YS MIN		TOLERANCES		DATE 27 APR 1970			
YS MAX		ANGLES		PREPARED			
EL2		2 PLACE DECIMALS		CHECKED			
SA		2 PLACE DECIMALS		ENGINEER			
BH				SUBMITTED			
RH				APPROVED			
APPLICATION		MATERIAL		SIZE		CODE IDENT NO.	
NEXT ASSY USED ON		9390029 M4		C 19204		8448533	
		9349062 M16A2		SCALE		2/1	
		D9327228 M23T		SHEET		2 OF 1	
		D8448602 M16		OF			
		D8448523 M16A1		1			
				PIN, COVER, HINGE			

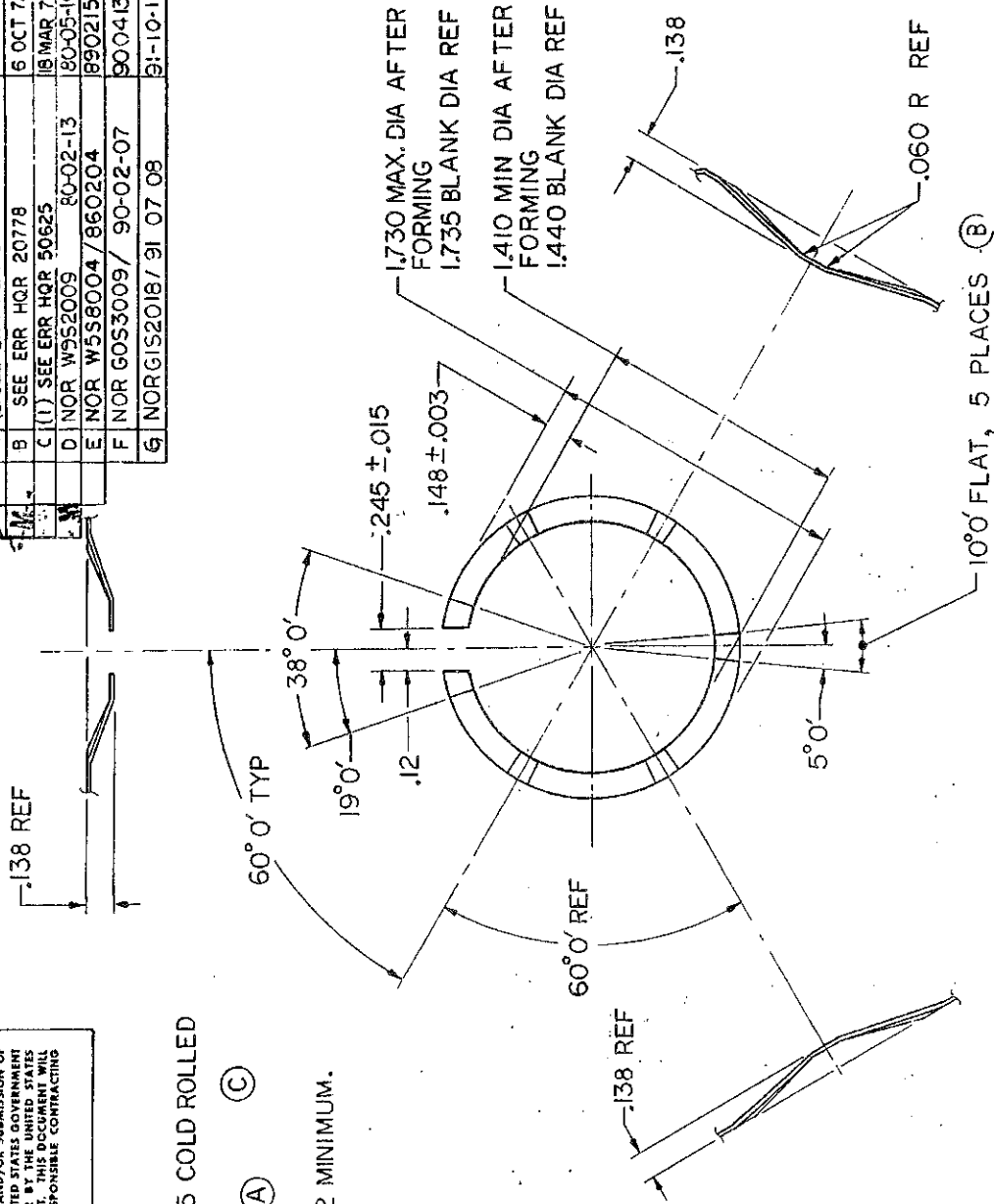
100 SHEET

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NOTE:

1. STEEL, ASTM A684, 1075 COLD ROLLED STRIP ANNEALED. MATERIAL THICKNESS .020 ± .001. (A) (C)
2. FINISH 125/.
3. DEBURR AND BREAK EDGES TO .002 MINIMUM.
4. BEND RADII .06.
5. MIL-W-13855 APPLIES. (A)



REVISIONS			DATE	APPROVED
MF	ZONE	LTR	DESCRIPTION	
			REDRAWN FROM COLT'S DRAWING D61961 REV A	27 APR 70
		A	(2) SEE ERR HQR 10726	26 MAY 71
		B	SEE ERR HQR 20778	6 OCT 72
		C	(1) SEE ERR HQR 50625	18 MAR 75
		D	NOR W552009 80-02-13	80-05-15
		E	NOR W558004/860204	890215
		F	NOR G053009/ 90-02-07	900413
		G	NORGIS2018/ 91 07 08	91-10-11

C8449556
CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

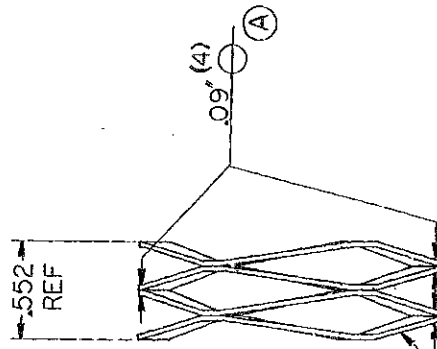
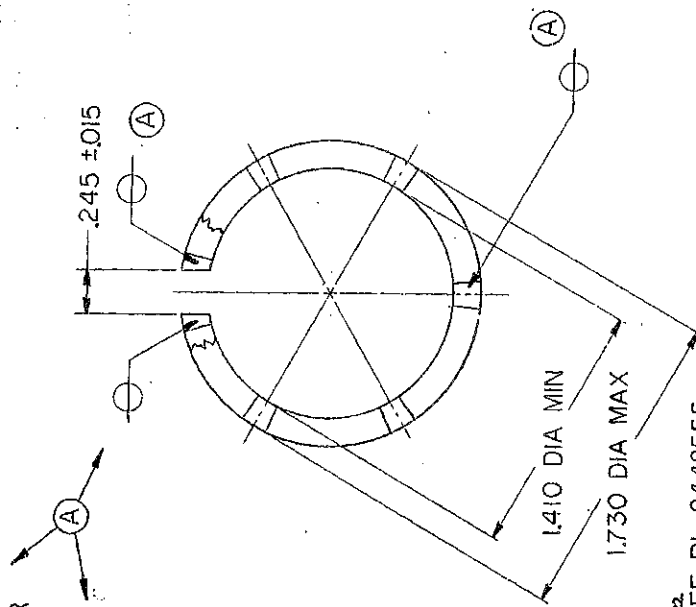
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES 3 PLACES DECIMALS ±.005 2 PLACES DECIMALS ±.01		CONTRACT NO.		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
YS MIN				DATE 27 APR 1970	PREPARED	POB	Q. J. M.
YS MAX				CHECKED	POB	Q. J. M.	
ELZ				ENGINEER	POB	Q. J. M.	
RA				SUBMITTED	POB	Q. J. M.	
BH				APPROVED	POB	Q. J. M.	
RH				FINAL PROTECTIVE FINISH	POB	Q. J. M.	
APPLICATION		SEE NOTE 1		CAGE CODE 19204		DRAWING NO. 8448556	
NEXT ASSY USED ON		M16 M16A2		SCALE 2/1		SHEET 1 OF 1	

NOTES: RESTRICTED AS TO USE AND DISCLOSURE

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NOTES:

1. FINISH 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171, EXCEPT: CLEAN IN ACCORDANCE WITH METHOD II, SPEC TT-C-490. ABRASIVE BLASTING SHALL NOT BE USED.
2. SPOT WELDS MUST HOLD AFTER COMPRESSION TO .215 HEIGHT ON SPRING TESTER.
3. MIL-W-13855 APPLIES.



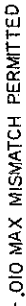
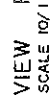
4-SPRING SECTION,
HAND GUARD SLIP RING-
8448556

DISTRIBUTION STATEMENT B. FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

SEE PL-8448555

CURRENT DESIGN ACTIVITY, CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07808-5000

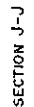
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		CONTRACT NO.	
YS MIN		TOLERANCES ARE IN INCHES		DATE 27 APRIL 1970	
YS MAX		TOLERANCES ARE IN INCHES		PREPARED E.C.B. A.B.H.	
EL2		TOLERANCES ARE IN INCHES		CHECKED W.P. HILLHOLLY	
RA		TOLERANCES ARE IN INCHES		ENGINEER W.P. HILLHOLLY	
BH		TOLERANCES ARE IN INCHES		SUBMITTED F.P. HILLHOLLY	
RH	15N	TOLERANCES ARE IN INCHES		APPROVED R.P. HILLHOLLY	
NEXT ASSY USED ON		MATERIAL		SIZE CODE IDENT NO. DRAWING NO.	
APPLICATION		MATERIAL		C 19204 8448555	
APPLICATION		MATERIAL		SCALE 2/1	
APPLICATION		MATERIAL		SHEET 1 OF 1	

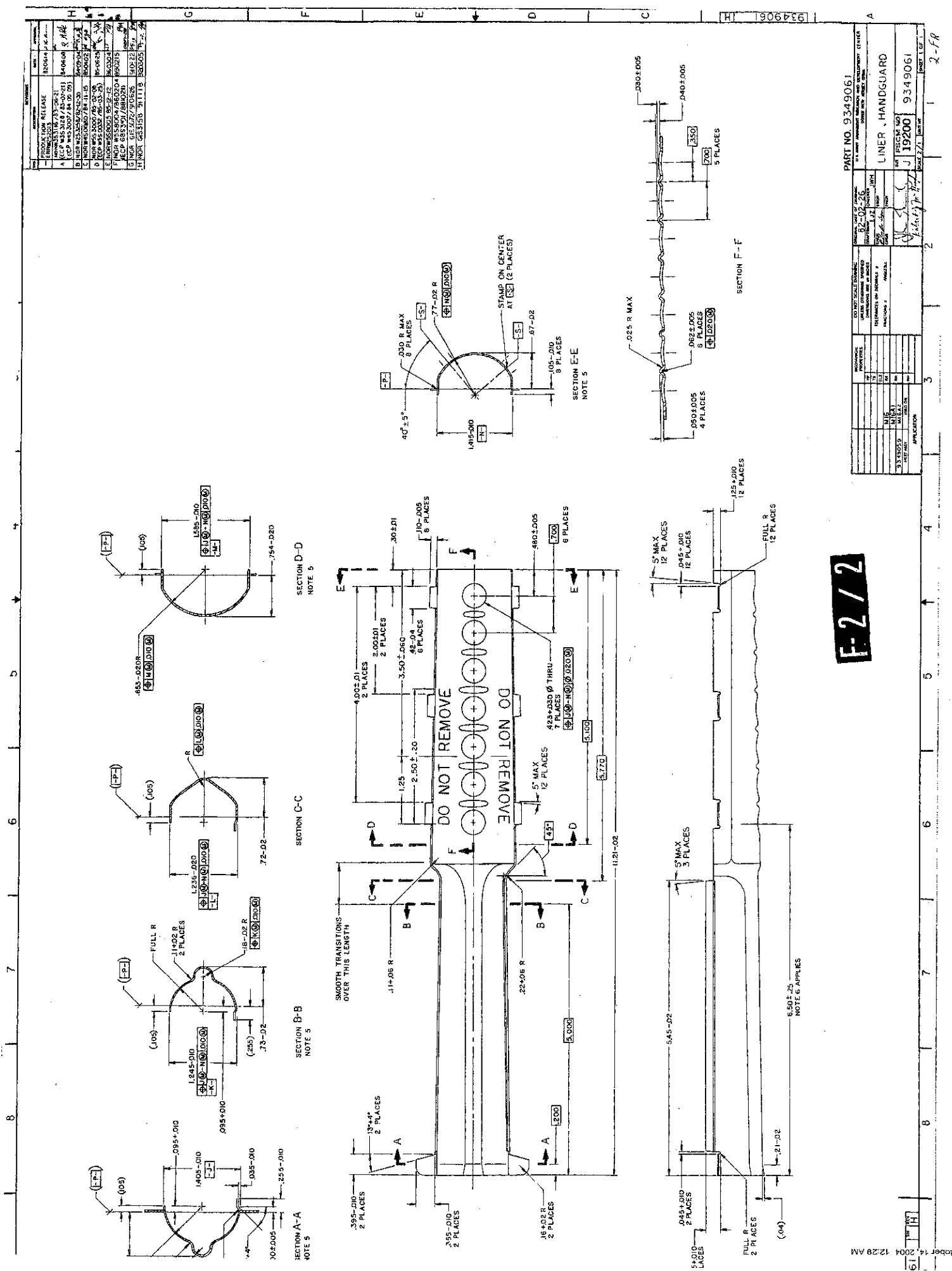
SECTION B-B

IN	ZONE	IN	REVISIONS	DATE	APPROVED
			SEAGRAM CIVIL ENGINEERING DESIGNS INC.	27 April 2010	
			DRAWN BY: A	18 JUN 2011	
			A SEE MOB 10777	830614	P
			B NORTH 25013		P
			C NORTH 25024 (S 0800) (ECWP55008 (S 0802))	85-09-22	P
			D NORTH 25028 (S 0800)	8506-30	P
			E NORTH 25035 (S 0800)	8702-27	P
			F NORTH 25080 (S 0800)	890215	P
			G NORTH 25104 (S 0708)	91-10-11	P

NOTES: RESTRICTED AS TO USE AND DISCLOSURE.

- NOTE:
1. FINISH 125/ 3
 2. BREAK SHARP EDGES .005 MAX.
 3. ALL DIAMETERS 0.1310
 4. ALL DIMENSIONS APPLY BEFORE FINISH.
 5. GRIT BLAST CONTOURED Q.D. PRIOR TO FINISH TO PRODUCE NON REFLECTIVE MATE SURFACE AFTER FINISH.
 6. FINISH MIL -A-8625, TYPE 3, CLASS 2, FILM THICKNESS .0010 ± .0002 FINISH SHALL BE LUSTERLESS (FLAT), APPROX. BLACK, NO 37038, TABLE IX, BUT NOT LIGHTER THAN GRAY, NO 36076, TABLE VIII OF FED-STD-595, AND SEAL





F-2/2

PART NO. 9349061

LINER, HANDGUARD

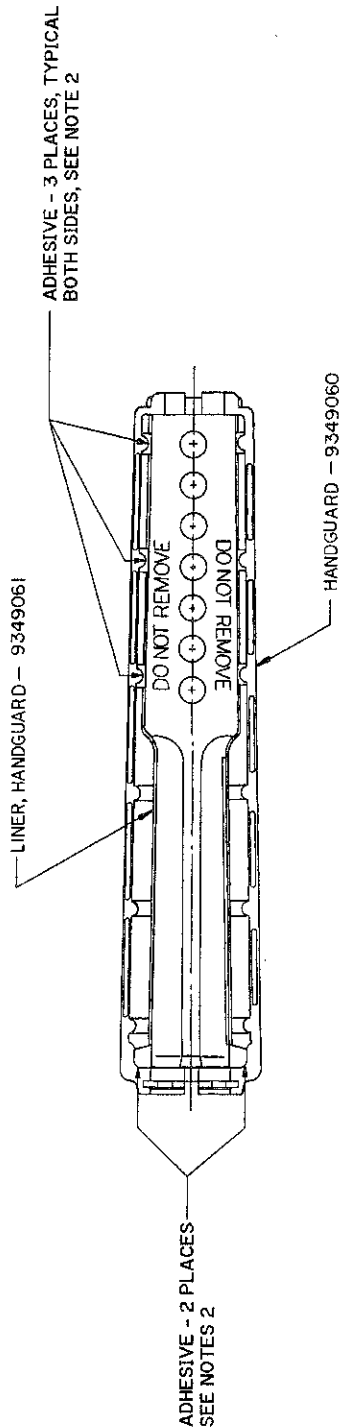
19200 9349061

2-FR

NOTES: -
1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.
2 - APPLY UNIFORM COATING OF ADHESIVE P/N 12012054 TO
SLOTS BETWEEN HANDGUARD - 9349060 AND LINER,
HANDGUARD - 9349061, 8 PLACES TOTAL.

THESE INSTRUCTIONS ARE TO BE USED BY THE ENGINEER.
THESE INSTRUCTIONS ARE TO BE USED BY THE ENGINEER.
THESE INSTRUCTIONS ARE TO BE USED BY THE ENGINEER.
THESE INSTRUCTIONS ARE TO BE USED BY THE ENGINEER.
THESE INSTRUCTIONS ARE TO BE USED BY THE ENGINEER.

REV	DESCRIPTION	DATE	APPROVE
1	PRODUCTION RELEASE	820614	
2	REVISIONS		
A	NOR W538005 / 84-11-15	850102	
B	NOR W538005 / 84-11-15	850102	
C	NOR W538005 / 84-11-15	850102	
D	NOR W538005 / 84-11-15	850102	

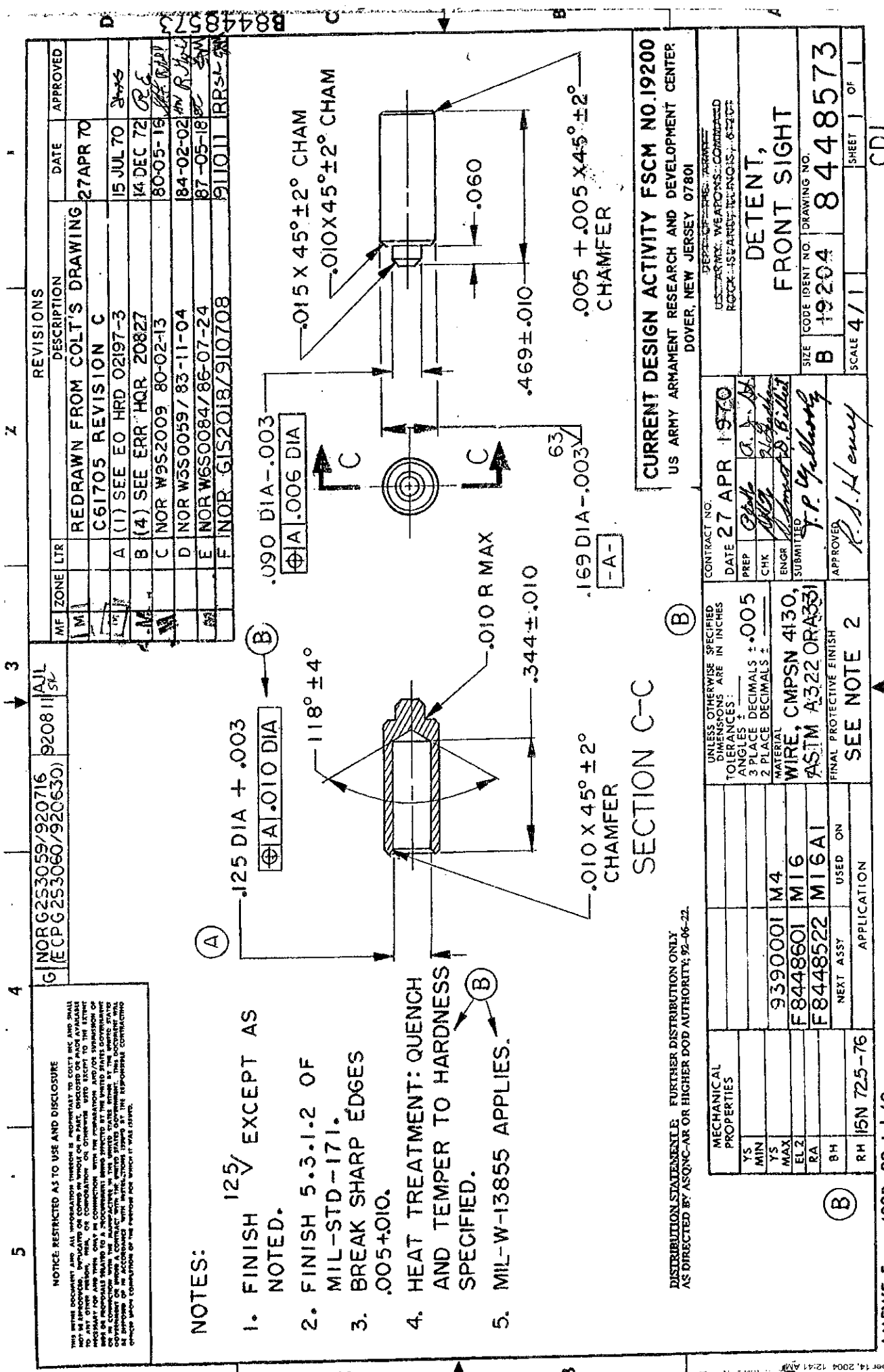


FOR ENGINEERING PARTS LIST SEE PL 9349059

PART NO. 9349059

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOWEN, NEW JERSEY 07834

ORIGINAL DATE OF DRAWING 82-02-26	CHECKER WH
DATE OF REVISION 82-02-26	DATE OF REVISION 82-02-26
DO NOT SCALE DRAWING UNLESS OTHERWISE INDICATED	UNLESS OTHERWISE INDICATED
TOLERANCES ON DIMENSIONS IN INCHES	TOLERANCES ON DIMENSIONS IN MILLIMETERS
FUNCTIONS IN ANGLES IN	FUNCTIONS IN ANGLES IN
MECHANICAL PROPERTIES	MECHANICAL PROPERTIES
12012050 M16A3	12012050 M16A3
8448501 M16	8448501 M16
8448522 M16A1	8448522 M16A1
9349050 M16A2	9349050 M16A2
NEXT ASST	USED ON
APPLICATION	APPLICATION



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NOTES:

1. FINISH $125\sqrt{\text{V}}$ EXCEPT AS NOTED.
2. FINISH 5.3.1.2 OF MIL-STD-171.
3. BREAK SHARP EDGES .005 ± .010.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.

DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
YS MIN		ANGLES	3 PLACE DECIMALS ± .005
YS MAX		2 PLACE DECIMALS	
EL2		MATERIAL	WIRE, CMPSN 4130, ASTM A322 OR A331
RA		FINAL PROTECTIVE FINISH	SEE NOTE 2
BH		USED ON	
RH	15N 725-76	APPLICATION	

CONTRACT NO.	DATE	27 APR 1970
PREP	CHK	ENGR
SUBMITTED	APPROVED	

SIZE	CODE IDENT NO.	DRAWING NO.
B	19204	8448573
SCALE	4/1	SHEET 1 OF 1

DETENT, FRONT SIGHT
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

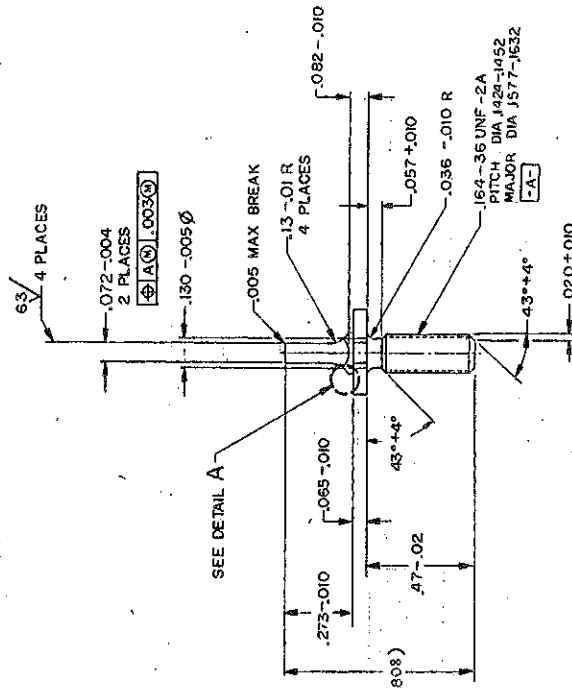
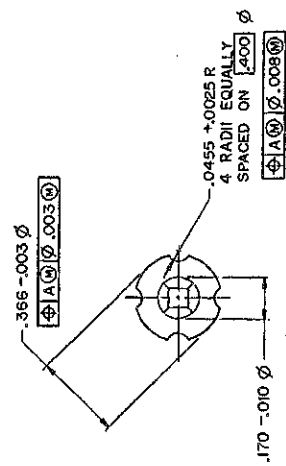
SECTION C-C

[illegible]

NOTES: 1

- 1-SPEC MIL-W-13855 AND ANSI Y14.5-73
APPLY.
- 2-MATERIAL--STEEL COLD DRAWN BAR
CHRSN. U17 THERM 1144 SPEC. ASTM-A108.
ALTERNATE MATERIALS ARE NOT TO BE USED.
3-ALL DIMENSIONS ARE BEFORE PROTECTIVE
FINISH.
- 4-BREAK SHARP EDGES .005+0.00 EXCEPT AS
NOTED.
- 5-FILLET RADII .015-.012
- 6-FINISH 125/ ALL OVER
- 7-PROTECTIVE FINISH--5, 3, 1.2 OF MIL-STD-171.

SN#	DESCRIPTION	DATE	REMOVAL
-	PRODUCTION RELEASE	820514	
A	ENR#252015	84-06-01	
B	ENR#252016	84-06-01	
C	ENR#252017	84-06-01	
D	ENR#252018	84-06-01	
E	ENR#252019	84-06-01	
F	ENR#252020	84-06-01	
G	ENR#252021	84-06-01	
H	ENR#252022	84-06-01	
I	ENR#252023	84-06-01	
J	ENR#252024	84-06-01	
K	ENR#252025	84-06-01	
L	ENR#252026	84-06-01	
M	ENR#252027	84-06-01	
N	ENR#252028	84-06-01	
O	ENR#252029	84-06-01	
P	ENR#252030	84-06-01	
Q	ENR#252031	84-06-01	
R	ENR#252032	84-06-01	
S	ENR#252033	84-06-01	
T	ENR#252034	84-06-01	
U	ENR#252035	84-06-01	
V	ENR#252036	84-06-01	
W	ENR#252037	84-06-01	
X	ENR#252038	84-06-01	
Y	ENR#252039	84-06-01	
Z	ENR#252040	84-06-01	



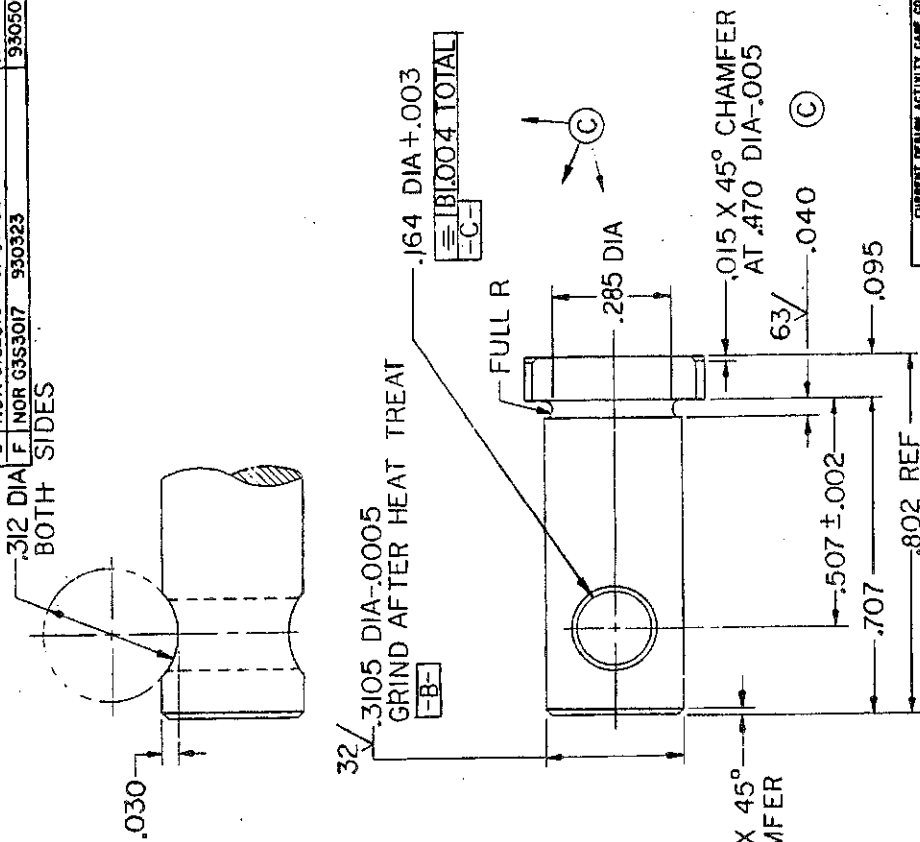
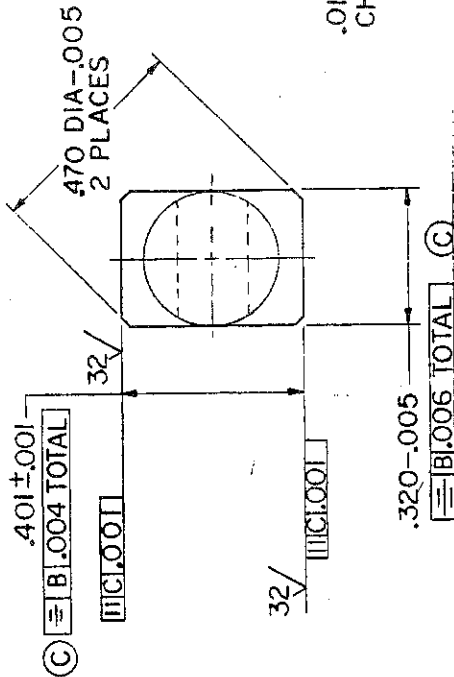
0.005 R MAX
0.005 MAX BREAK

DETAIL A
SCALE 10/1

[illegible]

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1. FINISH 125/ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005+.005.
3. APPLY DRY FILM LUBRICANT MIL-L-46010. (C) FILM THICKNESS .0002-.0004. CURE ONE HOUR AT 375° F. OR USE EVERLUBE 626 OR 626S, FILM THICKNESS .0002-.0004, CURE FOR 1 HOUR AT 375° F.
4. QUENCHED HEAT TREATMENT:
QUENCH IN OIL FROM 1500° F TO 1550° F. TEMPER AT 625° F TO 675° F FOR ONE HOUR.
5. MIL -W-13855 APPLIES.

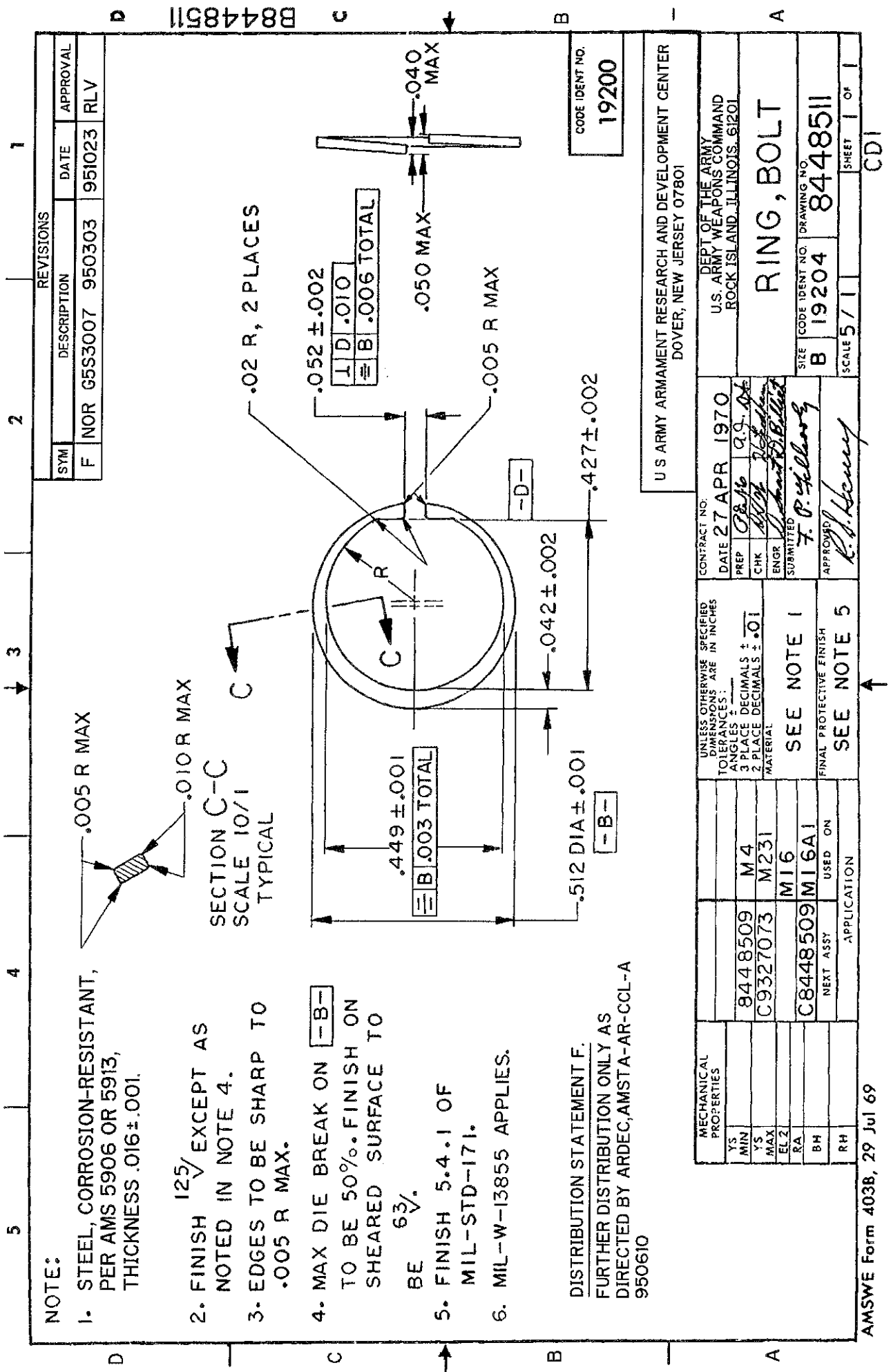


MECHANICAL PROPERTIES		TOLERANCES: DIMENSIONS ARE IN INCHES ANGLES $\pm 2^\circ$ 3 PLACE DECIMALS $\pm .005$ 2 PLACE DECIMALS $\pm .01$		MATERIAL	
YS					STEEL ALLOY E4340, SPEC MIL-S-5000
MIN					
YS					
MAX					
EL2					FINAL PROTECTIVE FINISH 5.3.1.3 OF MIL-STD-171
RA					
PH					
PH	C45-48	NEXT ASSY	USED ON		
					APPLICATION

DATE	27 APR 1970
PREPARED BY	P.R. A.Y. At
CHECKED BY	<i>[Signature]</i>
ENGINEER	Lt. Col. D. Ballist
SUBMITTED	F.P. Yellowing
APPROVED	<i>[Signature]</i>

DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
PIN, CAM	
SIZE	CODE IDENT NO. DRAWING NO.
C	19204 8448502
SCENE 5/	

AMSWE Form 403C. 29 Jul 69



NOTE:

1. STEEL, CORROSION-RESISTANT, PER AMS 5906 OR 5913, THICKNESS .016 ± .001.
2. FINISH $\sqrt[125]{}$ EXCEPT AS NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO .005 R MAX.
4. MAX DIE BREAK ON $\sqrt[63]{}$ TO BE 50% FINISH ON SHEARED SURFACE TO BE $\sqrt[63]{}$.
5. FINISH 5.4.1 OF MIL-STD-171.
6. MIL-W-13855 APPLIES.

DISTRIBUTION STATEMENT F.

FURTHER DISTRIBUTION ONLY AS DIRECTED BY ARDEC, AMSTA-AR-CCL-A 950610

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DEPT OF THE ARMY	
YS	MIN	ANGLES	3 PLACE DECIMALS ± .01	DATE	PREP	U.S. ARMY WEAPONS COMMAND	
YS	MAX	2 PLACE DECIMALS ± .01	MATERIAL	27 APR 1970	CHK	ROCK ISLAND, ILLINOIS 61201	
EL2	RA	SEE NOTE 1			ENR	RING, BOLT	
BH	RH	FINAL PROTECTIVE FINISH			SUBMITTED	SIZE CODE IDENT NO. DRAWING NO.	
		SEE NOTE 5			APPROVED	B 19204 8448511	
APPLICATION		NEXT ASSY USED ON		SCALE		SHEET 1 OF 1	
8448509 M4		M16		F. P. Williams		CDI	
C9327073 M231		M16A1		R. J. Henry			
C8448509 M16A1							

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NOTE: 125/✓ EXCEPT AS
L. FINISH NOTED.

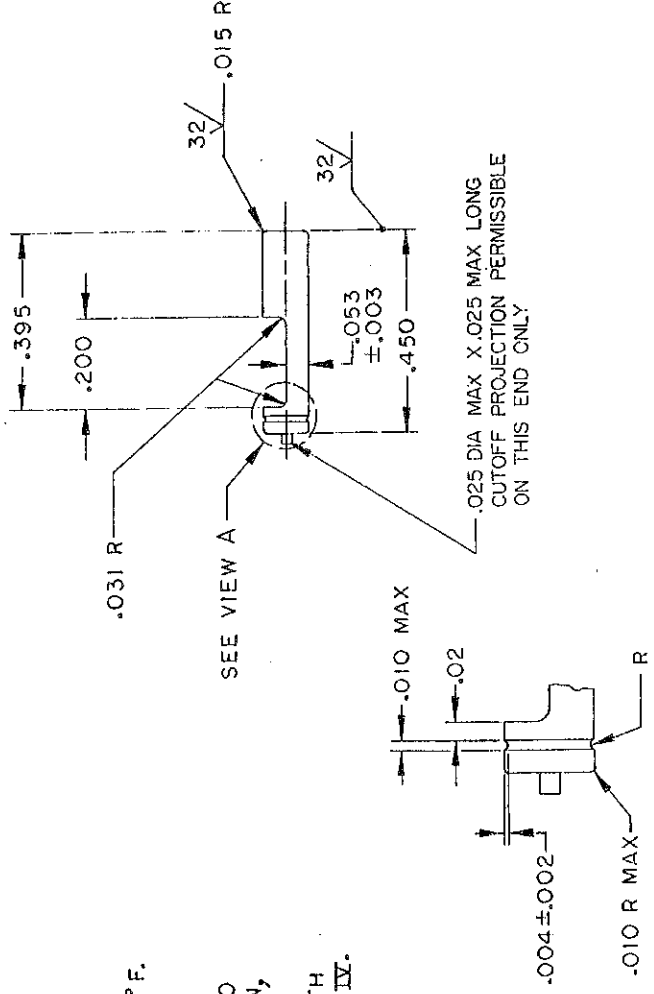
010 R MAX.

3. OIL QUENCH FROM 1600° F.

SHOT PEEN ALL OVER. S-70
SHOT,.005-.007-A2 ALMEN,
150 % COVERAGE.

5. CLEAN IN ACCORDANCE WITH
TT-C-490, METHOD III OR IV.
FINISH 5.3.1.2 OF
MIL-STD-171.

6. MIL-W-13855 APPLIES.



VIEW A
SCALE 10/1

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-3000

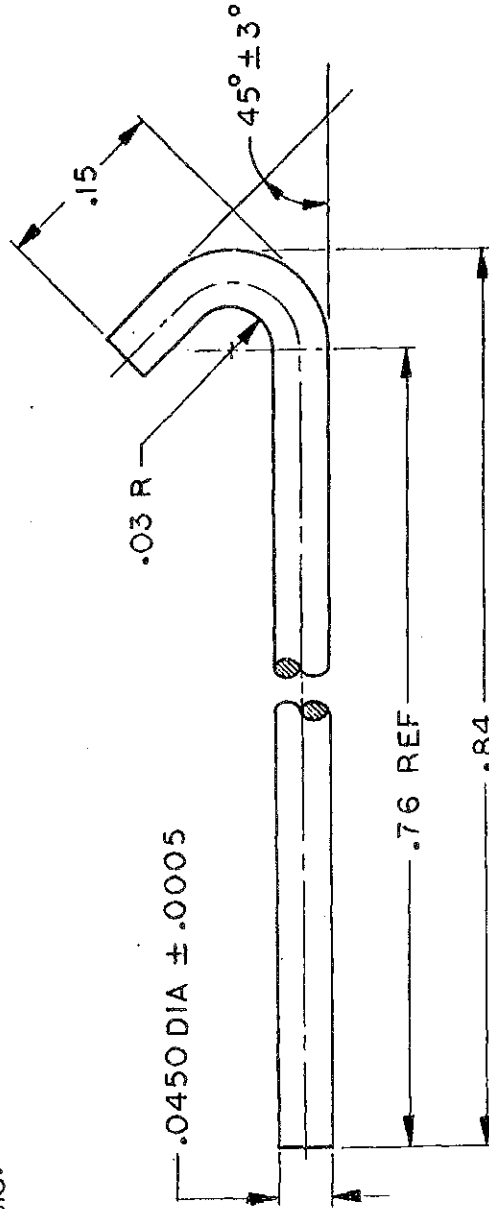
MECHANICAL PROPERTIES						UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS	MIN					TOLERANCES:		DATE 27 APR 1970	
YS	MAX					ANGLES ±		PREPARED RGA	
						3 PLACE DECIMALS ±.005		CHECKED HL	
						2 PLACE DECIMALS ±.01		ENGINEER D.S. D.B.	
						MATERIAL		SUBMITTED	
						TOOL STEEL,		F. P. FILLINOLY	
						TYPE S2,		APPROVED	
						ASTM-A681		RS. HENRY	
						FINAL PROTECTIVE FINISH			
						SEE NOTE 5			
						APPLICATION			
						NEXT ASSY USED QN			
						C8448509 M16A1			
						15N 88.5		SIZE CODE TQNT NO. DRAWING NO.	
						-90.5		C 19204 8448515	
								SCALE 5/1	
								SHEET 1 OF 1	

DISTRIBUTION STATEMENT E
FURTHER DISTRIBUTION ONLY AS DIRECTED BY ARDEC,
SWAMPSCOTT, ROCK ISLAND, IL; OR HIGHER DOD AUTHORITY
ASQNC-AR; 920310.

[illegible]

1 WIRE, STAINLESS STEEL, TYPE 631,
(17-7PH), COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT
TREAT AFTER FORMING.
HOLD AT 900°F ± 10°
FOR 1 HOUR. AIR COOL.
3. FINISH 5.4.1 OF
MIL-STD-171.
4. MIL-W-13855 APPLIES.



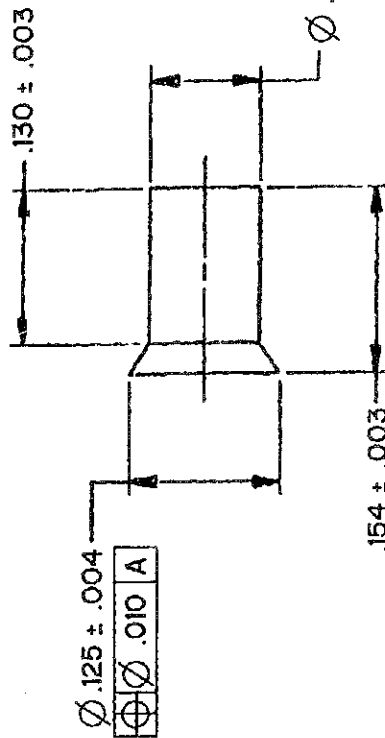
CURRENT DESIGN ACTIVITY
ESCM No. 19200

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

[illegible]

NOTES:-

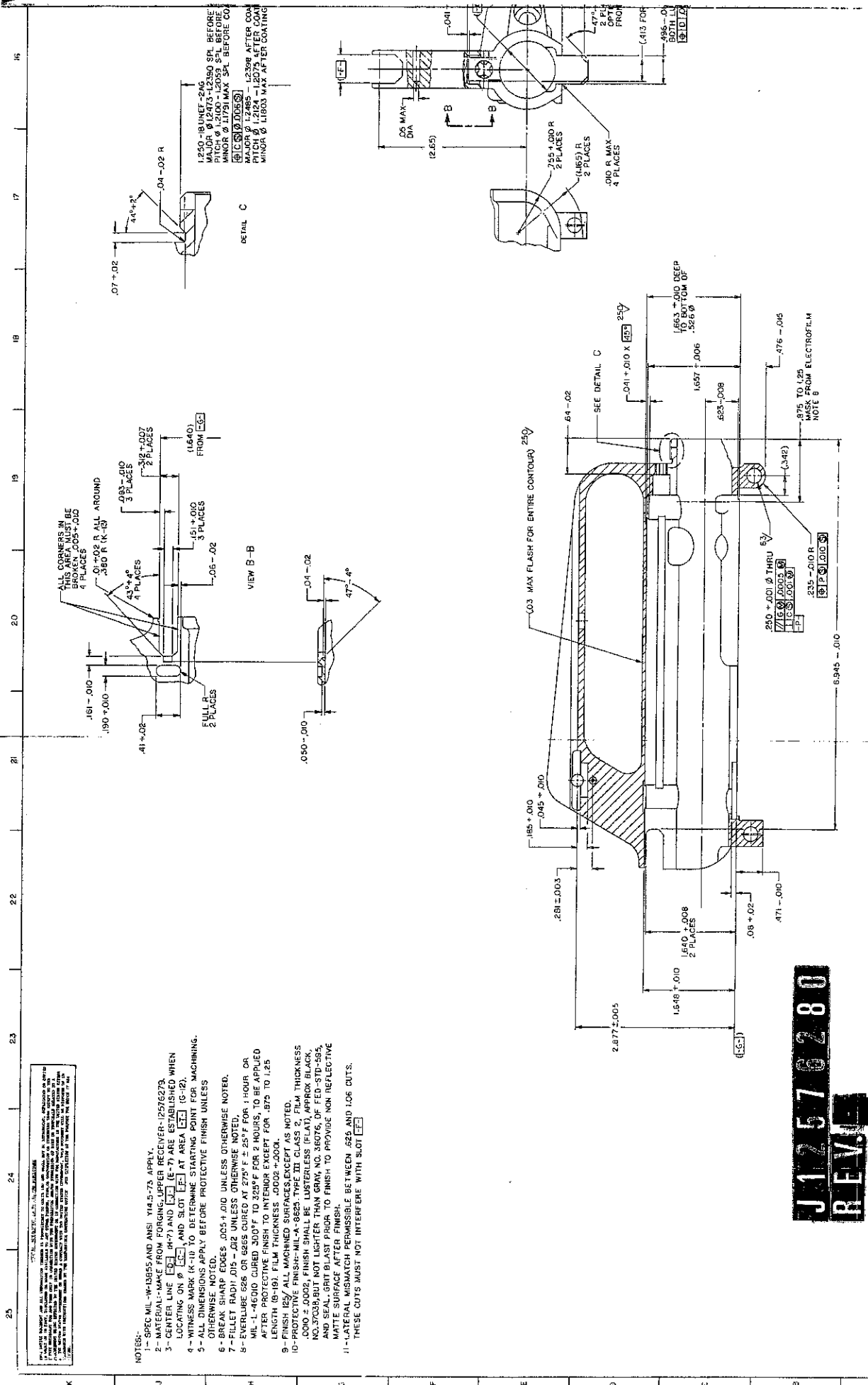
- 1- MATERIAL: CLASS 1, BUNA-N, SHORE HARDNESS 80 ± 5
DUROMETER PER MIL-R-6855, EXCEPT LOW-TEMP.
TEST PER PARA 4.6.4 OF MIL-R-6855 SHALL UTILIZE
MIL-L-46000 OR MIL-L-63460 LUBRICATE IN LIEU OF
TEST FLUIDS TYPE I AND III PER TT-S-735. MUST ALSO
MEET OZONE REQUIREMENT OF CLASS 2, TYPE A.
- 2- ALL CORNERS AND FILLETS TO BE .005 R MAX.
- 3- MIL-W-13855 APPLIES.
- 4- COLOR SHALL BE APPROXIMATELY WHITE, NO. 37722
TO 37925 OF FED-SID-595.



DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

PART NO. 12972693

DESIGN ACTIVITY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000		U.S. ARMY	
CONTRACT NUMBER		CONTRACTOR	
DRAWN BY HJS	CHECKER HJS	DATE 951211	ENGINEER
DRAWING APPROVAL		DESIGN APPROVAL	
MATERIAL ENGR		MATERIAL ENGR	
DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL FRACTION 2 PL ± 3 PL ±		THIRD ANGLE PROJECTION	
MECHANICAL PROPERTIES		APPLICATION	
YP		12972692	
TS		NEXT ASSY USED ON	
EL		M4	
RA		12972693	
BH		SCALE 10/1	
RH		JUN 11 W	
SHEET		12972693	



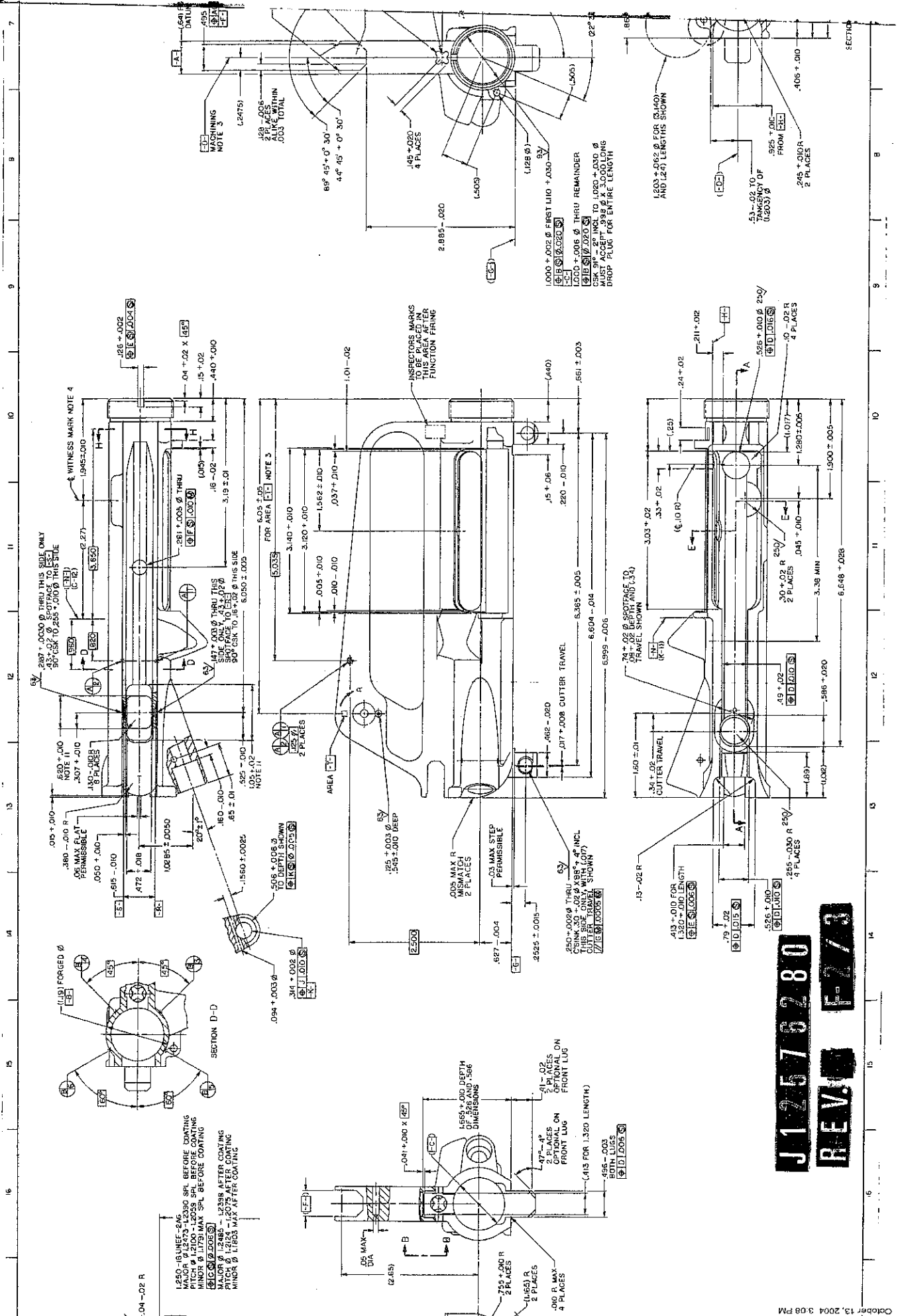
NOTES:
1- SPEC MIL-W-18855 AND ANSI Y14.5-73, APR 73.
2- MATERIAL-MAKE FROM FORGING UPPER RECINGER-12516273.
3- CENTER LINE [E] (H-7) AND [E] (E-7) ARE ESTABLISHED WHEN LOCATING ON [E] AND SLOT [E] AT AREA [E] (G-2).
4- WITNESS MARK (K-10) TO DETERMINE STARTING POINT FOR MACHINING.
5- ALL DIMENSIONS APPLY BEFORE PROTECTIVE FINISH UNLESS OTHERWISE NOTED.
6- BREAK SHARP EDGES .005 ± .010 UNLESS OTHERWISE NOTED.
7- FILLET RADIUS .015 ± .012 UNLESS OTHERWISE NOTED.
8- EVERLUBE 626 OR 625 CURED AT 275°F ± 25°F FOR 1 HOUR OR MIL-L-46100 CURED 300°F TO 325°F FOR 2 HOURS, TO BE APPLIED OVER PROTECTIVE FINISH TO INTERIOR EXCEPT FOR .875 TO 1.25 LENGTH .1875 ± .003 THICKNESS .0002 ± .0001.
9- FINISH .1875 ± .003 ALL MACHINED SURFACES, NO FLAT THICKNESS .0002 ± .0002, FINISH SHALL BE LUSTERLESS (FLAT) APPROX BLACK, NO.37039, BUT NOT LIGHTER THAN GRAY NO. 36076, OF FED-STD-593, AND SEAL-GRIT BLAST PRIOR TO FINISH TO PROVIDE NON REFLECTIVE MATTE SURFACE AFTER FINISH.
11- LATERAL MISMATCH PERMISSIBLE BETWEEN .625 AND LOC CUTS. THESE CUTS MUST NOT INTERFERE WITH SLOT [E].

J112576280
REV. E
F-173

SECTION A-A

DETAIL C

VIEW B-B



J12570280
REV. F-273

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

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STAKE 4 PLACES-STAKE EACH SCREW
(2) PLACES SIMULTANEOUSLY, STAKES
TO BE 180° ± 5° OPPOSED. DEPTH TO BE
SUFFICIENT TO GIVE A REMOVAL
TORQUE OF 55 TO 100 IN. LB.

NO DISTORTION PERMISSIBLE
ON THESE SURFACES

0.01, 4 PLACES

SEE VIEW B

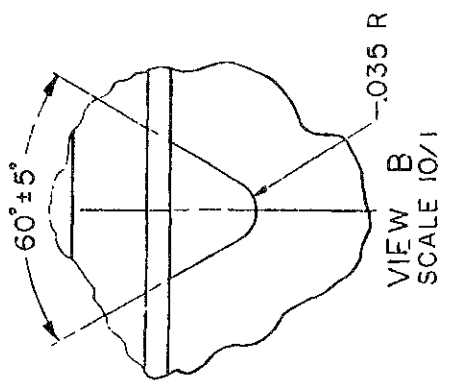
APPLY PERMATEX NO.3D
AVIATION FORM-A-GASKET
(LIQUID) AROUND GAS HOLE
ONLY ON BOLT CARRIER
PRIOR TO ASSEMBLY.
SEE NOTE 2

2-SCREW, CAP, HEX SOCKET HEAD - 8448508
TIGHTENING TORQUE 58 LB IN. - 8 LB IN.

0.025 MAX
4 PLACES

CARRIER, BOLT - 8448507

KEY, BOLT CARRIER - 8448506



CURRENT DESIGN ACTIVITY CASE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL NEW JERSEY 07806-3000

NOTE:

- 1. MIL-W-13855 APPLIES. (A)
- 2. ALTERNATIVE MATERIAL:
MIL-S-45180 TYPE III

DISTRIBUTION STATEMENT
FURTHER DISSEMINATION ONLY AS DIRECTED BY ARDEC, SMCA/EDW, ROCK
ISLAND IL ASG/AC/AR OR DISSEMINATED AUTHORITY SC0323.

AMSWE Form 403C, 29 Jul 69

REVISIONS			DATE	APPROVED
MF	ZONE	DESCRIPTION		
A		REDRAWN FROM COLT'S DRAWING C62286 REVISION C	27 APR 70	
B		SEE ERR HQR 20778	6 OCT 72	
C		NO. 20778	05-02-03	
D		NO. 20778	05-02-03	
E		NO. 20778	05-02-03	
F		NO. 20778	05-02-03	
G		NO. 20778	05-02-03	
H		NO. 20778	05-02-03	
I		NO. 20778	05-02-03	
J		NO. 20778	05-02-03	

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ARE IN INCHES		CONTRACT NO.	
YS	MIN	8448501	M4	3 PLACE DECIMALS ±.005	DATE 27 APR 1970	PREPARED	REB
YS	MAX	8448501	M4	2 PLACE DECIMALS ±.01	CHECKED	REB	REB
EL 2	RA	8448501	M4	MATERIAL	ENGINEER	REB	REB
SH	SH	8448501	M4	FINAL PROTECTIVE FINISH	SUBMITTED	REB	REB
RH	RH	8448501	M4	APPROVED	REB	REB	REB
APPLICATION		NEXT ASSY		USED ON			
D8448501		M16A1					
MIL-S-45180		TYPE III					

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

KEY AND BOLT
CARRIER ASSEMBLY

SIZE CODE IDENT NO. DRAWING NO.
C 19204 8448505

SCALE 2/1

SHEET 1 OF 1

CDI

THE DRAFT DOCUMENT AND ALL INFORMATION RECEIVED IS HEREBY TO GO TO THE SEC AND SHALL BE KEPT IN THE SEC FILE. THE DRAFT DOCUMENT IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN TO BE USED FOR THE SEC FILE. THE DRAFT DOCUMENT IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN TO BE USED FOR THE SEC FILE.

NOTE:

1. APPLY MIL-L-4603C LUBRICANT TO POST, FRONT SIGHT ASSEMBLY TO DETENT, FRONT SIGHT ASSEMBLY TO SPRING, FRONT SIGHT DETENT-38448574 OVER LENGTHS 1.2 PLACES.
2. PLACE 1 ESTABLISHED BY 1 OF BARREL DIA'S 1.00 AND 1.00 AND SLOT 1.00 AT 1.00.
3. MIL-W-12855 APPLIES.
4. LAMINATIONS FROM COMPENSATOR SPACER (93493052) MAY BE REMOVED TO ASSEMBLE COMPENSATOR (93493050) WITH SLOT CAS. SHOWN.
5. ALTERNATE METHOD OF ASSEMBLY: A SINGLE SPACER COMPENSATOR-38487098 AND A SINGLE SHIM, COMPENSATOR-38487098 DASH 1 THRU SHALL BE SELECTED TO ASSEMBLE THE COMPENSATOR WITH SLOT CAS SHOWN.

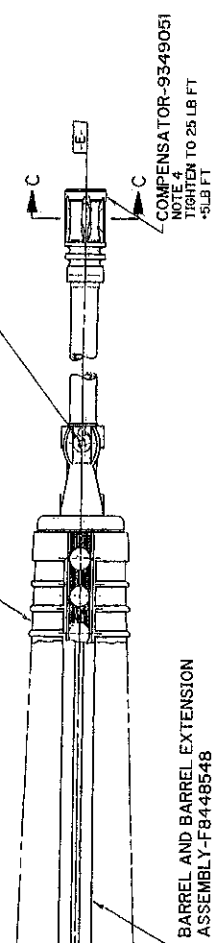
BARREL NUT ASSEMBLY - 98448711

⑤ TIGHTEN BARREL NUT TO 50 LB. FT., THEN ADVANCE BARREL NUT (IF NECESSARY) TO ALIGN SCALLOP WITH GAS TUBE HOLE IN UPPER RECEIVER. MAX ALLOWABLE TORQUE 80 LB. FT. APPLY MOLYKOTE "G" OR EQUIV TO UPPER RECEIVER THREADS WHEN ASSEMBLING BARREL NUT ASSEMBLY TO UPPER RECEIVER ASSEMBLY.

2-HANDGUARD ASSEMBLY
D9349059

3349052)
ATOR
LE SPACER,
1M,

P.D. 8-36UNF-28 MOD REF
G.E. 010 TOTAL



- UPPER RECEIVER ASSEMBLY-D8448523

POST, FRONT-D9349056

SIGHT AND GAS TUBE
ASSEMBLY-C8448565

-SPACER, COMPENSATOR -
9349052
ASSEMBLY WITH LAMINATIONS
TOWARD COMPENSATOR
NOTE 4, NOTE 5

CAP, HANDGUARD-C8448564-
CAP SHALL BE FIRMLY RETAINED
BETWEEN SHOULDER ON BARREL
AND REAR OF SIGHT TO PREVENT
CAP'S FREE ROTATION

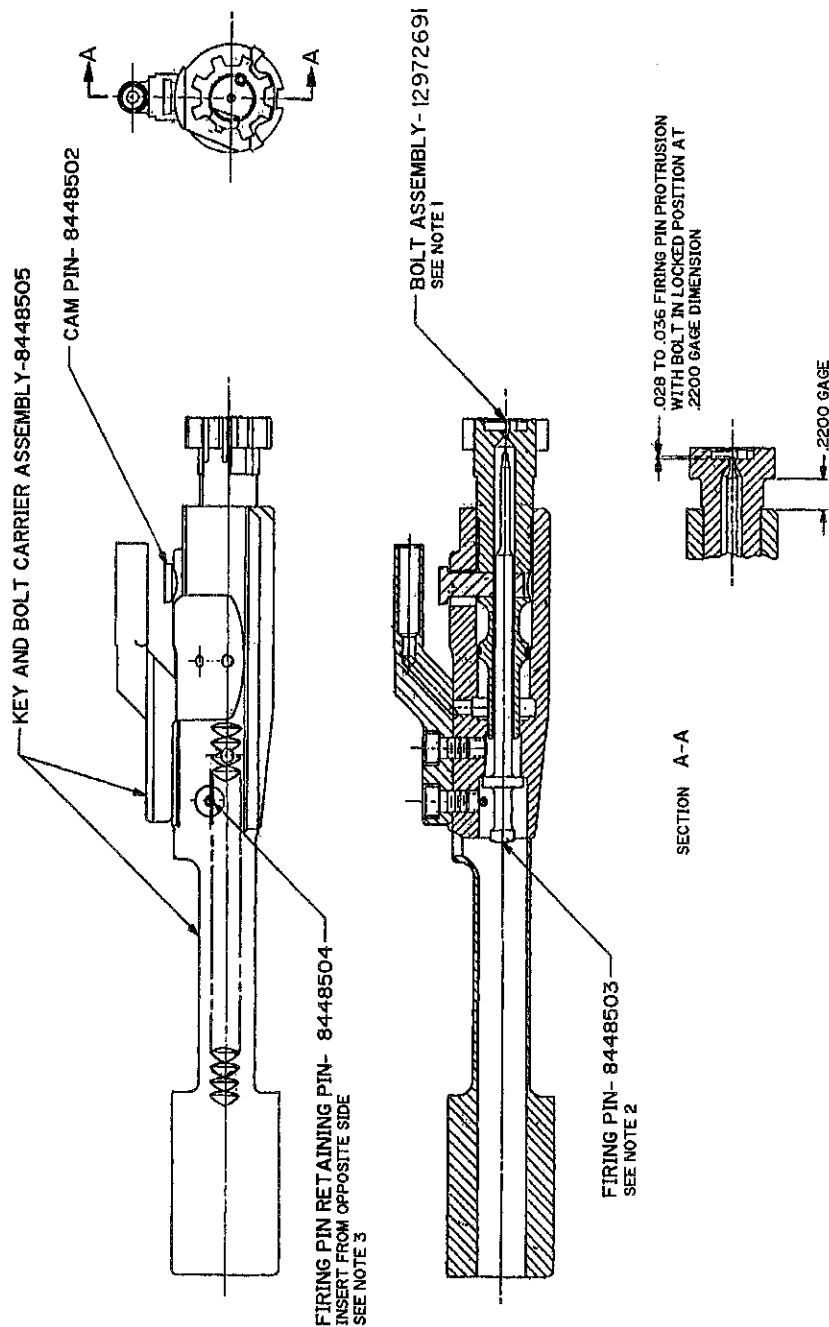
Diagram illustrating the receiver slot dimensions. The slot is shown with a hatched area representing the receiver. The dimension .406 REF is indicated for the slot width, and the dimension H040 TOTAL is indicated for the total height of the receiver assembly.

SECTION A-A

ATT	EMPLOYEE	DEPARTMENT	DESCRIPTION	DATE	APPROVED
1			REDAWING FROM COLT'S DRAWING 682276 REV C	27 APR 70	
2			A (3) SEE CD HRO 0287-5	19 JUL 70	
3			B (4) SEE CD HRO 0287-5	19 JUL 70	
4			C (3) SEE HRA 0721	20 DEC 70	
5			D (3) SEE HRA 0721	17 MAR 71	
6			E (3) SEE HRA 0721	17 MAY 71	
7			F (3) SEE HRA 0721	21 JUL 71	
8			G (3) SEE HRA 0721	21 JUL 71	
9			H (3) SEE HRA 0721	21 JUL 71	
10			I (3) SEE HRA 0721	21 JUL 71	
11			J (3) SEE HRA 0721	21 JUL 71	
12			K (3) SEE HRA 0721	21 JUL 71	
13			L (3) SEE HRA 0721	21 JUL 71	
14			M (3) SEE HRA 0721	21 JUL 71	
15			N (3) SEE HRA 0721	21 JUL 71	
16			O (3) SEE HRA 0721	21 JUL 71	
17			P (3) SEE HRA 0721	21 JUL 71	
18			Q (3) SEE HRA 0721	21 JUL 71	
19			R (3) SEE HRA 0721	21 JUL 71	
20			S (3) SEE HRA 0721	21 JUL 71	
21			T (3) SEE HRA 0721	21 JUL 71	
22			U (3) SEE HRA 0721	21 JUL 71	
23			V (3) SEE HRA 0721	21 JUL 71	
24			W (3) SEE HRA 0721	21 JUL 71	
25			X (3) SEE HRA 0721	21 JUL 71	
26			Y (3) SEE HRA 0721	21 JUL 71	
27			Z (3) SEE HRA 0721	21 JUL 71	
28			AA (3) SEE HRA 0721	21 JUL 71	
29			AB (3) SEE HRA 0721	21 JUL 71	
30			AC (3) SEE HRA 0721	21 JUL 71	
31			AD (3) SEE HRA 0721	21 JUL 71	
32			AE (3) SEE HRA 0721	21 JUL 71	
33			AF (3) SEE HRA 0721	21 JUL 71	
34			AG (3) SEE HRA 0721	21 JUL 71	
35			AH (3) SEE HRA 0721	21 JUL 71	
36			AI (3) SEE HRA 0721	21 JUL 71	
37			AJ (3) SEE HRA 0721	21 JUL 71	
38			AK (3) SEE HRA 0721	21 JUL 71	
39			AL (3) SEE HRA 0721	21 JUL 71	
40			AM (3) SEE HRA 0721	21 JUL 71	
41			AN (3) SEE HRA 0721	21 JUL 71	
42			AO (3) SEE HRA 0721	21 JUL 71	
43			AP (3) SEE HRA 0721	21 JUL 71	
44			AQ (3) SEE HRA 0721	21 JUL 71	
45			AR (3) SEE HRA 0721	21 JUL 71	
46			AS (3) SEE HRA 0721	21 JUL 71	
47			AT (3) SEE HRA 0721	21 JUL 71	
48			AU (3) SEE HRA 0721	21 JUL 71	
49			AV (3) SEE HRA 0721	21 JUL 71	
50			AW (3) SEE HRA 0721	21 JUL 71	
51			AX (3) SEE HRA 0721	21 JUL 71	
52			AY (3) SEE HRA 0721	21 JUL 71	
53			AZ (3) SEE HRA 0721	21 JUL 71	
54			BA (3) SEE HRA 0721	21 JUL 71	
55			BB (3) SEE HRA 0721	21 JUL 71	
56			BC (3) SEE HRA 0721	21 JUL 71	
57			BD (3) SEE HRA 0721	21 JUL 71	
58			BE (3) SEE HRA 0721	21 JUL 71	
59			BF (3) SEE HRA 0721	21 JUL 71	
60			BG (3) SEE HRA 0721	21 JUL 71	
61			BH (3) SEE HRA 0721	21 JUL 71	
62			BI (3) SEE HRA 0721	21 JUL 71	
63			BJ (3) SEE HRA 0721	21 JUL 71	
64			BK (3) SEE HRA 0721	21 JUL 71	
65			BL (3) SEE HRA 0721	21 JUL 71	
66			BM (3) SEE HRA 0721	21 JUL 71	
67			BN (3) SEE HRA 0721	21 JUL 71	
68			BO (3) SEE HRA 0721	21 JUL 71	
69			BP (3) SEE HRA 0721	21 JUL 71	
70			BQ (3) SEE HRA 0721	21 JUL 71	
71			BR (3) SEE HRA 0721	21 JUL 71	
72			BS (3) SEE HRA 0721	21 JUL 71	
73			BT (3) SEE HRA 0721	21 JUL 71	
74			BU (3) SEE HRA 0721	21 JUL 71	
75			BV (3) SEE HRA 0721	21 JUL 71	
76			BW (3) SEE HRA 0721	21 JUL 71	
77			BX (3) SEE HRA 0721	21 JUL 71	
78			BY (3) SEE HRA 0721	21 JUL 71	
79			BZ (3) SEE HRA 0721	21 JUL 71	
80			CA (3) SEE HRA 0721	21 JUL 71	
81			CB (3) SEE HRA 0721	21 JUL 71	
82			CC (3) SEE HRA 0721	21 JUL 71	
83			CD (3) SEE HRA 0721	21 JUL 71	
84			CE (3) SEE HRA 0721	21 JUL 71	
85			CF (3) SEE HRA 0721	21 JUL 71	
86			CG (3) SEE HRA 0721	21 JUL 71	
87			CH (3) SEE HRA 0721	21 JUL 71	
88			CI (3) SEE HRA 0721	21 JUL 71	
89			CJ (3) SEE HRA 0721	21 JUL 71	
90			CK (3) SEE HRA 0721	21 JUL 71	
91			CL (3) SEE HRA 0721	21 JUL 71	
92			CM (3) SEE HRA 0721	21 JUL 71	
93			CN (3) SEE HRA 0721	21 JUL 71	
94			CO (3) SEE HRA 0721	21 JUL 71	
95			CP (3) SEE HRA 0721	21 JUL 71	
96			CQ (3) SEE HRA 0721	21 JUL 71	
97			CR (3) SEE HRA 0721	21 JUL 71	
98			CS (3) SEE HRA 0721	21 JUL 71	
99			CT (3) SEE HRA 0721	21 JUL 71	
100			CU (3) SEE HRA 0721	21 JUL 71	

[illegible]

- NOTES:-
- 1- BOLT ASSEMBLY- 12972691 MUST CAM FREELY IN KEY AND BOLT CARRIER ASSEMBLY- 8448505.
- 2- FIRING PIN- 8448503 MUST MOVE FREELY IN BOLT ASSEMBLY- 12972691.
- 3- FIRING PIN RETAINING PIN- 8448504 MUST BE SECURE AND MUST HOLD FIRING PIN SECURELY.
- 4- MIL-W-13955 APPLIES.

[illegible]

DISTRIBUTION STATEMENT A.
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 1

PICATINNY ARSENAL, NEW JERSEY 07806-5000

PARTS LIST : PL-19204-8448500
DOCUMENT NUMBER : F 19204-8448500
NOMENCLATURE : RIFLE ASSEMBLY M16A1
CHANGE CONTROL NO.: L7S3059

REVISION SYMBOL: E
REVISION DATE : 03/13/98
ORIGINAL DATE : 01/24/86

AUTHENTICATION- *A. Davis*

FIND NUMBER	QTY REQD	CAGE	PART/IDENTIFYING DRAWING		DRAWING SIZE	DRAWING/DOCUMENT		NOMENCLATURE OR DOCUMENT TITLE	SUP LIST
			NUMBER	NUMBER		NUMBER	NUMBER		
0001		19200	12011849		D	12011849		BOLT CARRIER ASSEMBLY	X
0001		19200	12624561		C	12624561		SLING, ADJUSTABLE, SMALL ARMS	X
0001		19204	8448517		B	8448517		CHARGING HANDLE ASSY	X
0001		19204	8448522		F	8448522		UPPER RECEIVER AND BARREL ASSEMBLY	X
0001		19204	8448578		F	8448578		LOWER RECEIVER AND BUTTSTOCK ASSY	X
0001		19204	8448670		D	8448670		MAGAZINE ASSY, 30 ROUND	X

TOTAL PAGES TO PARTS LIST: 1

QTY REQD: AR - AS REQUIRED ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

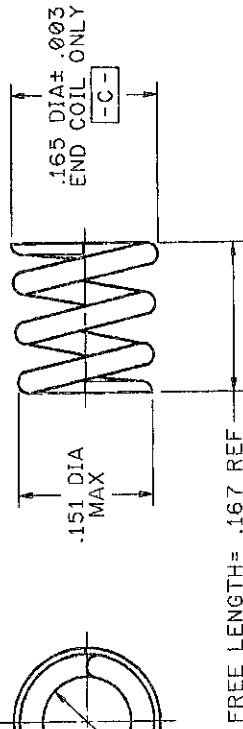
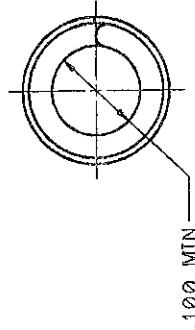
ENGLISH DOW AUTOMOTIVE, INC.

NOTES:

1. WIRE, STEEL, MUSIC SPRING QUALITY PER ASTM-A228 .022 SIZE EXCEPT TENSILE STRENGTH TO BE 363.000 TO 393.000 PSI. STRESS RELIEVE- HOLD AT 450°F ± 25°F FOR 30 MIN.
2. SUGGESTED SOURCE OF SUPPLY:
NATIONAL STANDARD
NILES, MICHIGAN 49120:
MAPES PIANO STRING CO.
ELIZABETHAN, TENN 37644:
JOHNSON WIRE & STEEL
WORCESTER, MASS.
3. MANUFACTURE IN ACCORDANCE WITH TYPE 1, GRADE A, MIL-S-13572.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 ± .012
6. PRESET- COMPRESS TO SOLID HEIGHT 3 TIMES PRIOR TO CHECKING LOADS.

*7. PRESET- COMPRESS TO SOLID HEIGHT 3 TIMES PRIOR TO CHECKING LOADS.

SPRING DATA	
WIRE DIA	.0220
TOTAL COILS	4 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .140 IN=	2.0 LB ± 0.2 LB
LOAD AT COMPRESSED LENGTH OF .112 IN=	4.2 LB ± 0.4 LB
ONE END EXPANDED TO DIM.	-C-
TYPE OF ENDS	CLOSED AND GROUND
SOLID LENGTH	.090 MAX



CURRENT DESIGN ACTIVITY CASE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07805-5000

THIS DRAWING HAS BEEN GENERATED
ON A CAD SYSTEM LOCATED AT ARDEC,
BLDG. 6, PICATINNY ARSENAL, N.J.
CHANGES MUST BE INCORPORATED
VIA THIS SYSTEM.

PART NO. 8448753

PMIC		CONTRACT NUMBER		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL 2 PL ± .005 FRACTION 3 PL ± .005		CONTRACTOR	
8448755	M4	DRAWN BY T. D. KODAK DATE (YR-MO-DA) 71-11-04		ENGINEER A. A. COLE	
B11828591	M231	CHECKED BY S. J. BRESNAHAN DATE 71-11-04		DESIGN APPROVAL R. S. HENRY	
B8448755	M16	THIRD ANGLE PROJECTION		SCALE 10/1	
M16A1	M16A1	MATERIAL ENGR		UNIT WT.	
NEXT ASSY	USED ON	APPLICATION		SHEET	
DISTRIBUTION STATEMENT F. FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQNC-ARI OR HIGHER DOD AUTHORITY: DATE OF DETERMINATION:		SIZE CODE IDENT NO. C 19204		8448753	

SMCAR FORM 67, 1 DEC 87(TEMP). REPLACES SMCAR FORM 67, 1 MAR 87(TEMP), WHICH MAY BE USED UNTIL EXHAUSTED

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

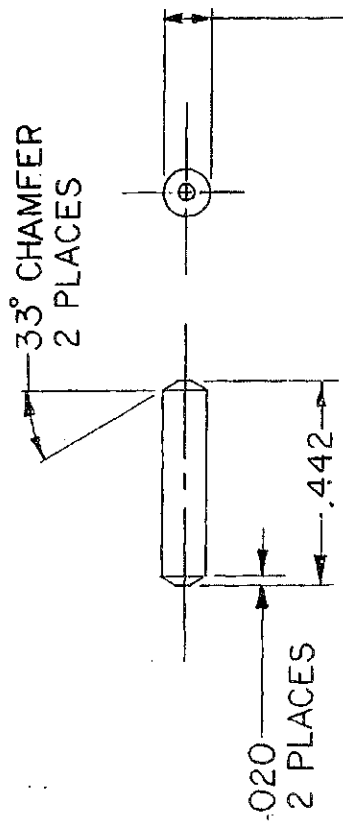
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NOTE:

1. FINISH 125/ EXCEPT AS NOTED.
2. OIL QUENCH FROM 1600°F, TEMPER AT 275°F TO 400°F.
3. AFTER TEMPERING, STEEL SHOT PEEN ALL OVER. S-70 SHOT, .005+0.002-A2 ALMEN, 150% COVERAGE.
4. CLEAN IN ACCORDANCE WITH TT-C-490, METHOD III OR IV. FINISH 5.3.1.2 OF MIL-STD-171.
5. MIL-W-13855 APPLIES.

DISTRIBUTION STATEMENT E
FURTHER DISTRIBUTION ONLY AS DIRECTED BY ARDEC.
SNCAR-ESW, ROCK ISLAND, IL; OR HIGHER DoD AUTHORITY
ASQNC-AR: 920310.

REVISIONS		DATE		APPROVED
MF	ZONE	LTR	DESCRIPTION	
1	A		REDRAWN FROM COLT'S DRAWING C61563 REV C	27 APR 70
2	A	(3)	SEE ERRHQR 20778	6 OCT 72
3	B	NOR W9S2009	80-02-13	80-05-16
4	C	ERR Z9Z1251Y (ECP G8S2073/890110		900622
5	D	NOR G1S2018	91 07 08	91-10-11
6	E	NOR G2S3025	920330	920427



.1000 DIA ± .0003
DIAMETER AFTER
FINISH .001+0.0010.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		DATE		ROCK ISLAND ARSENAL, ROCK ISLAND, ILL 61201		
YS	MIN	8448509	M4	PREP	B.R.S.	A.J.S.	27 APR 1970			
YS	MAX	C9327073	M231	CHK	D.H.W.	H.L.				
EL	2			ENGR	D.S.	D.B.				
RA				SUBMITTED						
BH		C8448509	M16	TOOL STEEL CLASS S2						
RH				ASTM-A681						
15N		USED ON		F.P. GILHOOLY		APPROVED				
88.5-90.5		APPLICATION		K.S. HENRY		SCALE		4/1		
				SEE NOTE 4		SIZE		CODE IDENT NO. DRAWING NO.		
						B		19204 8448513		
								SHEET 1 OF 1		

MIL-W-13855 APPLIES.

REVISIONS

INSTALL INSERT
INTO EXPANDED
OF SPRING AS

✓-SPRING, EXTRACTOR-8448753

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

SEE PL 8448755

PART NO. 8448755

[illegible]

EDITION OF 29 JUL 69 MAY BE USED.

AMSWE Form 403B, 13 Nov 70

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STAKE 4 PLACES-STAKE EACH SCREW (2) PLACES SIMULTANEOUSLY, STAKES TO BE 180°±5° OPPOSED. DEPTH TO BE SUFFICIENT TO GIVE A REMOVAL TORQUE OF 55 TO 100 IN.LB.

NO DISTORTION PERMISSIBLE ON THESE SURFACES

.01, 4 PLACES

SEE VIEW B

APPLY PERMATX NO.3D AVIATION FORM-A-GASKET (LIQUID) AROUND GAS HOLE ONLY ON BOLT CARRIER PRIOR TO ASSEMBLY. SEE NOTE 2

2-SCREW, CAP, HEX SOCKET HEAD - 8448508 - TIGHTENING TORQUE 58 LB IN. - 8 LB IN.

.025 MAX 4 PLACES

SEE PL-8448505

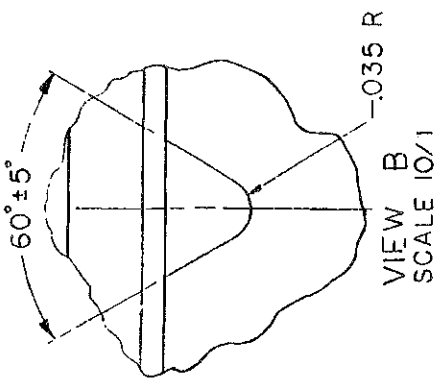
NOTE:

- 1. MIL-W-13855 APPLIES. (A)
- 2. ALTERNATIVE MATERIAL: MIL-S-45180 TYPE III

DISTRIBUTION STATEMENT E
FURTHER DISSEMINATION ONLY AS DIRECTED BY ARDEC, SMOAR, ESW, ROCK ISLAND, IL, AFSCN/AR OR CIRCULAR DAD AUTHORITY 920323.

AMSWE Form 403C, 29 Jul 69

REVISIONS			DATE	APPROVED
MF	ZONE	LTR	DESCRIPTION	
			REDRAWN FROM COLT'S DRAWING C-52286 REVISION C	27 APR 70
		A	SEE ERR HQR 20778	6 OCT 72
		B	NOR 630028	6 OCT 72
		C	NOR 630028	91-10-11
		D	NOR 6252012/320330	320423
		E	NOR 6253034/320408	920707
		F	NOR 6253056/92-07-16	92-10-07
		G	NOR 6253081/92-09-04	93-01-08
		H	NOR 6303007 930305	930402
		J	NOR 66S3024 960426	961023



KEY, BOLT CARRIER - 8448506

CURRENT DESIGN ACTIVITY CASE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PISCATAWAY ARSENAL NEW JERSEY 07800-3000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO	
YS		ANGLES		DATE 27 APR 1970	
MTS		2 PLACE DECIMALS ±.005		PREPARED R.E.B. A.S.A.	
MAX		2 PLACE DECIMALS ±.01		CHECKED W.B. A.S.A.	
EL 2		MATERIAL		ENGINEER J. A. G. A.S.A.	
SA				SUBMITTED J. A. G. A.S.A.	
SH				APPROVED R. J. Henry	
RH					
8448501 M4		NEXT ASSY USED ON		DRAWING NO	
D8448501 M16A1		APPLICATION		C 19204 8448505	
				SIZE CODE IDENT NO	
				SCALE 2/1	
				SHEET OF 1	

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

KEY AND BOLT
CARRIER ASSEMBLY

CDI

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NOTES:

1. MIL-W-13855 APPLIES.

SPRING ASSY, EXTRACTOR-8448755
FLARED END OF SPRING MUST BE BOTTOMED
IN EXTRACTOR AS SHOWN IN VIEW A.

PIN, EXTRACTOR-
8448513

EXTRACTOR-8448512

BOLT-8448510

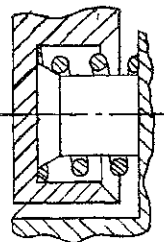
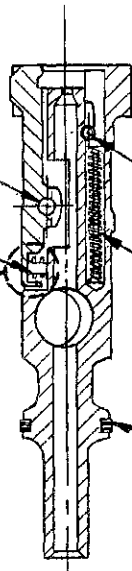
EJECTOR-8448515

PIN, SPRING-MS16562-98

SPRING, EJECTOR AND
SAFETY DETENT-8448516

3-RING, BOLT-8448511
RING GAPS MUST BE
STAGGERED

VIEW A
SCALE 10/1



REV	ZONE	DATE	DESCRIPTION	APPROVED
1	D	6 OCT 72	REPLACES REV C W/CHANGE SEE ERR NOR-80778	RC
2	E	82-06-09	NORW250020	LAH (L)
3	F	82-05-21	NOR W25 0026 / 82-05-21	83-09-22 (L)
4	G	84-07-08	NOR GIS2018	84-10-11 (L)
5	H	92-08-11	NOR G253059 / 920716 (ECPG253060 / 920630)	92-08-11 (L)

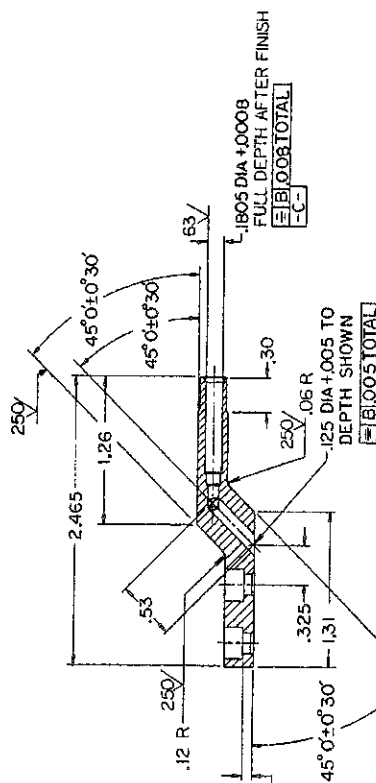
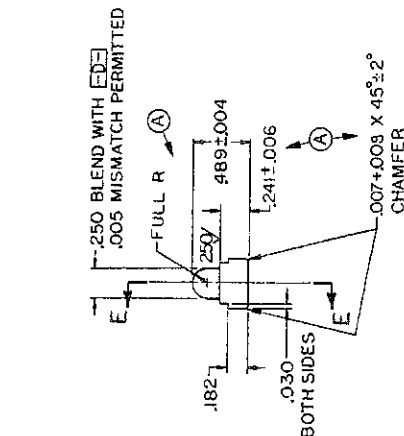
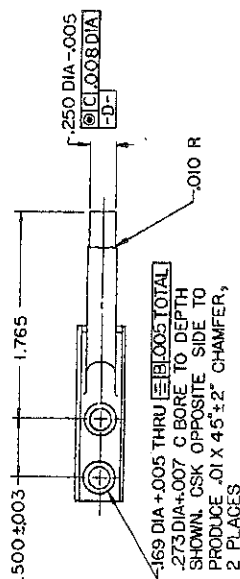
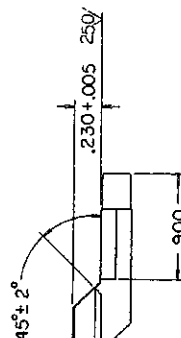
CURRENT DESIGN ACTIVITY FSCM No. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

SEE PL-8448509

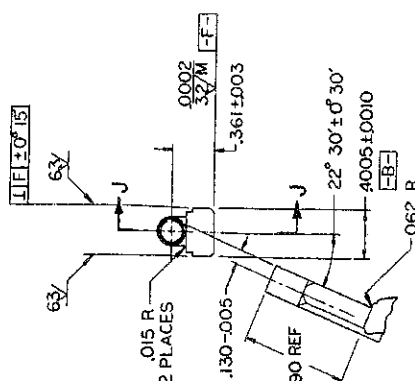
CONTRACT NO.		DATE 27 APR 1970		PREPARED BY [Signature]	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		ANGLES 2		3 PLACE DECIMALS	
MATERIAL		8448501 M4		D8448501 M16 A1	
MECHANICAL PROPERTIES		YS MIN		YS MAX	
		EL2		RA	
		BH		RH	
APPLICATION		NEXT ASSY USED ON		FINAL PROTECTIVE FINISH	
PART NO. 8448509		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		BOLT ASSEMBLY	
SIZE CODE IDENT NO. C 19204		DRAWING NO. 8448509		SCALE 2/1	
APPROVED [Signature]		DATE 27 APR 1970		CHECKED BY [Signature]	
				ENGINEER [Signature]	
				SUBMITTED [Signature]	

[illegible]

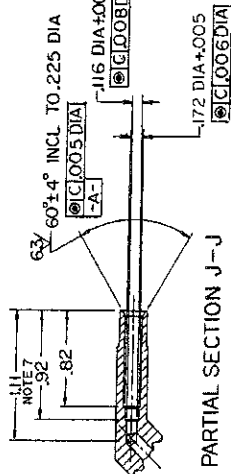
1. FINISH 125/ EXCEPT AS NOTED.
2. SUGGESTED HEAT TREAT PROCEDURE:
OIL QUENCH FROM 1575°F. TEMPER
AT 1100°F. FOR 1 HOUR.
3. FINISH 122.2 OF MIL-STD-171 ON DIA
E&I AND E&J. FILM THICKNESS
.0002/.0003.
4. ALL OTHER SURFACES TO RECEIVE
FINISH 5.3.1.2 OF MIL-STD-171.
5. BREAK SHARP EDGES .005+010.
6. MIL-W-13855, APPLIES.
7. FOR GAGING PURPOSED ONLY. THE DEPTH
OF PENETRATION OF A .1158 - .0002 GAGE
SHALL BE 1100 MIN TO 1135 MAX.



SECTION E-E



PARTIAL SECTION J-J



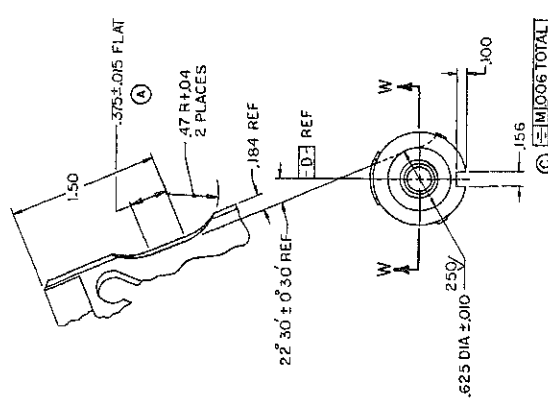
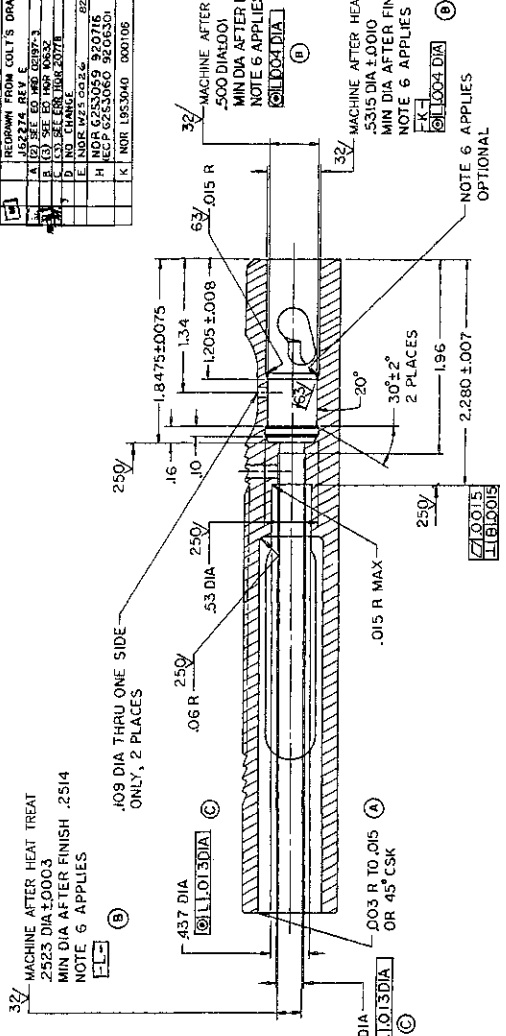
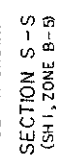
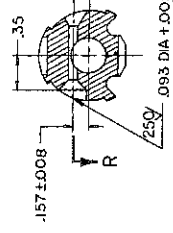
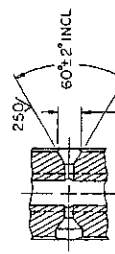
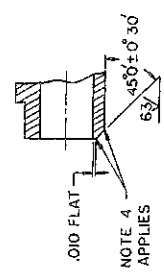
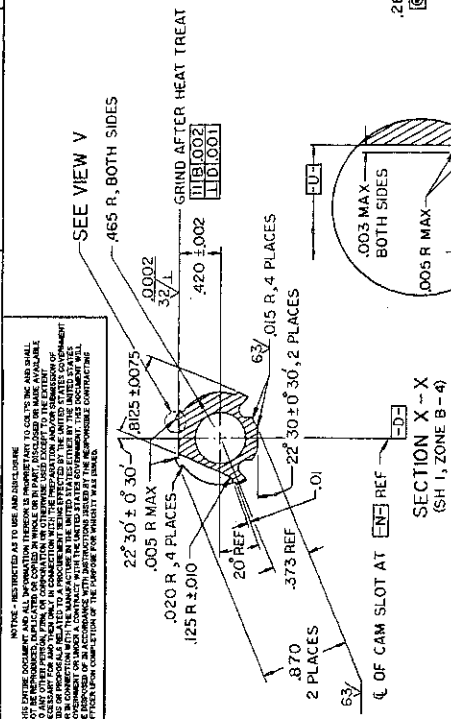
MT	TIME	DISCUSSION	REVISIONS	DATE	APPROVED
		REDRAWN FROM COLT'S DRAWING			
		9.615473 REV D		22APR 70	
A	(5)	SEE EOR NOR 10631		30 FEB 72	WALSH
B	(7)	SEE EIR NOR 20778		6 OCT 72	DOE
C	SEE EIR NOR 50604			5 FEB 73	DOE
D	NOE 2000000000			22-05-73	DOE
E	EOR 707195F			9/11/68	WAL
F	NOR 6053410 / 900709)				WAL
G	NOR 605346F / 901011			9/10/70	WAL
H	NOR 6233050 920716			21-10-71	WAL
I	EOR 6233060 920630)			92-08-11	WAL
J	NOR 6233142 920624			DECEMBER	WAL

CURRENT DESIGN ACTIVITY FSCM No. 19200
U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOWEN, NEW JERSEY 07001

[illegible]

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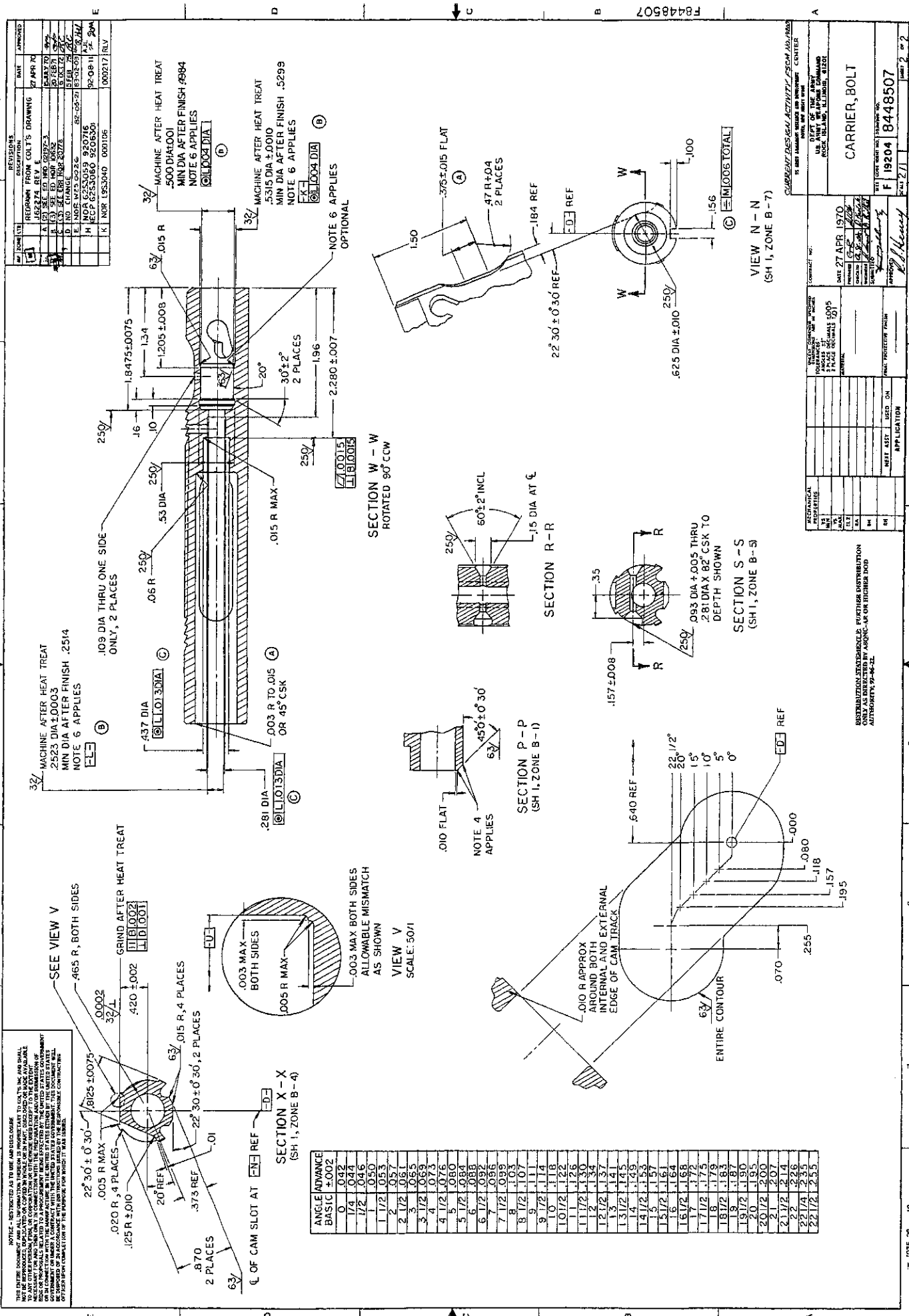
ANGLE INCHANCE BASIC ±.002	
0	.02
1/4	.04
1/2	.06
3/4	.08
1	.10
1 1/2	.12
2	.15
2 1/2	.18
3	.20
3 1/2	.23
4	.25
4 1/2	.28
5	.30
5 1/2	.34
6	.38
6 1/2	.42
7	.46
7 1/2	.49
8	.53
8 1/2	.57
9	.60
9 1/2	.64
10	.68
10 1/2	.72
11	.76
11 1/2	.80
12	.84
12 1/2	.87
13	.91
13 1/2	.95
14	.99
14 1/2	1.03
15	1.07
15 1/2	1.11
16	1.15
16 1/2	1.19
17	1.23
17 1/2	1.27
18	1.31
18 1/2	1.35
19	1.39
19 1/2	1.43
20	1.47
20 1/2	1.51
21	1.55
21 1/2	1.59
22	1.63
22 1/2	1.67
23	1.71
23 1/2	1.75
24	1.79
24 1/2	1.83
25	1.87
25 1/2	1.91
26	1.95
26 1/2	1.99
27	2.03
27 1/2	2.07
28	2.11
28 1/2	2.15
29	2.19
29 1/2	2.23
30	2.27
30 1/2	2.31
31	2.35
31 1/2	2.39
32	2.43
32 1/2	2.47
33	2.51
33 1/2	2.55



REVIEWS		DATE	APPROVED
1	RECD FROM COLT'S DRAWING	27 APR 70	
2	152734 REF E	26 MAY 70	
3	101502 FOR HQ WP-3	30 JUN 70	
4	(3) SEE HQ MAP 232	30 JUN 70	
5	(3) SEE HQ MAP 232	8 JUL 70	
6	(3) SEE HQ MAP 232	8 JUL 70	
7	NO CHANGE	5 SEP 70	
8	E NR WP2 002 G	02-OCT-70	
9	NOR WP2 002 G	02-OCT-70	
10	NOR WP2 002 G	02-OCT-70	
11	REC P 025-0060	02-OCT-70	
12	REC P 025-0060	02-OCT-70	
13	REC P 025-0060	02-OCT-70	
14	REC P 025-0060	02-OCT-70	
15	REC P 025-0060	02-OCT-70	
16	REC P 025-0060	02-OCT-70	
17	REC P 025-0060	02-OCT-70	
18	REC P 025-0060	02-OCT-70	
19	REC P 025-0060	02-OCT-70	
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23	REC P 025-0060	02-OCT-70	
24	REC P 025-0060	02-OCT-70	
25	REC P 025-0060	02-OCT-70	
26	REC P 025-0060	02-OCT-70	
27	REC P 025-0060	02-OCT-70	
28	REC P 025-0060	02-OCT-70	
29	REC P 025-0060	02-OCT-70	
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31	REC P 025-0060	02-OCT-70	
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33	REC P 025-0060	02-OCT-70	
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77	REC P 025-0060	02-OCT-70	
78	REC P 025-0060	02-OCT-70	
79	REC P 025-0060	02-OCT-70	
80	REC P 025-0060	02-OCT-70	
81	REC P 025-0060	02-OCT-70	
82	REC P 025-0060	02-OCT-70	

[illegible]

ANGLE	ADVANCE
BASIC	0
1	0.042
2	0.042
3	0.042
4	0.042
5	0.042
6	0.042
7	0.042
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9	0.042
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13	0.042
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100	0.042



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NOTES:
1. STEEL AISI 4140 OR AISI 4340, GUN QUALITY, @
ANNEALED, COLD DRAWN
AND STRESS RELIEVED BHN 187/229.

2. FINISH 63" EXCEPT AS NOTED.

3. AUSTEMPER SUGGESTED
PROCEDURE: HEAT TO 1550°F
IN NEUTRAL SALT BATH.
TRANSFER TO 680°F SALT
BATH, HOLD 20 TO 25 MIN.
AIR COOL.

4. SHOT PEEN AREA [A-A] AFTER
HEAT TREAT WITH S70 SHOT
IN ACCORDANCE WITH
MIL-S-13165 (SCATTER
PEENING PERMISSIBLE FOR
REMAINDER OF PART).

5. BREAK SHARP EDGES .005±.010
UNLESS OTHERWISE SPECIFIED.

6. START OF OF RUNOUT
SHALL BE LOCATED BY
.125 R LOCATED ON [B-B]
INTERSECTION WITH
SURFACE [C-C].

7. MIL-W-13955 APPLIES.

VIEW D
SCALE 10/1

PROJECTION PERMISSIBLE

1.00 R TRUE
2 PLACES

28 FLAT
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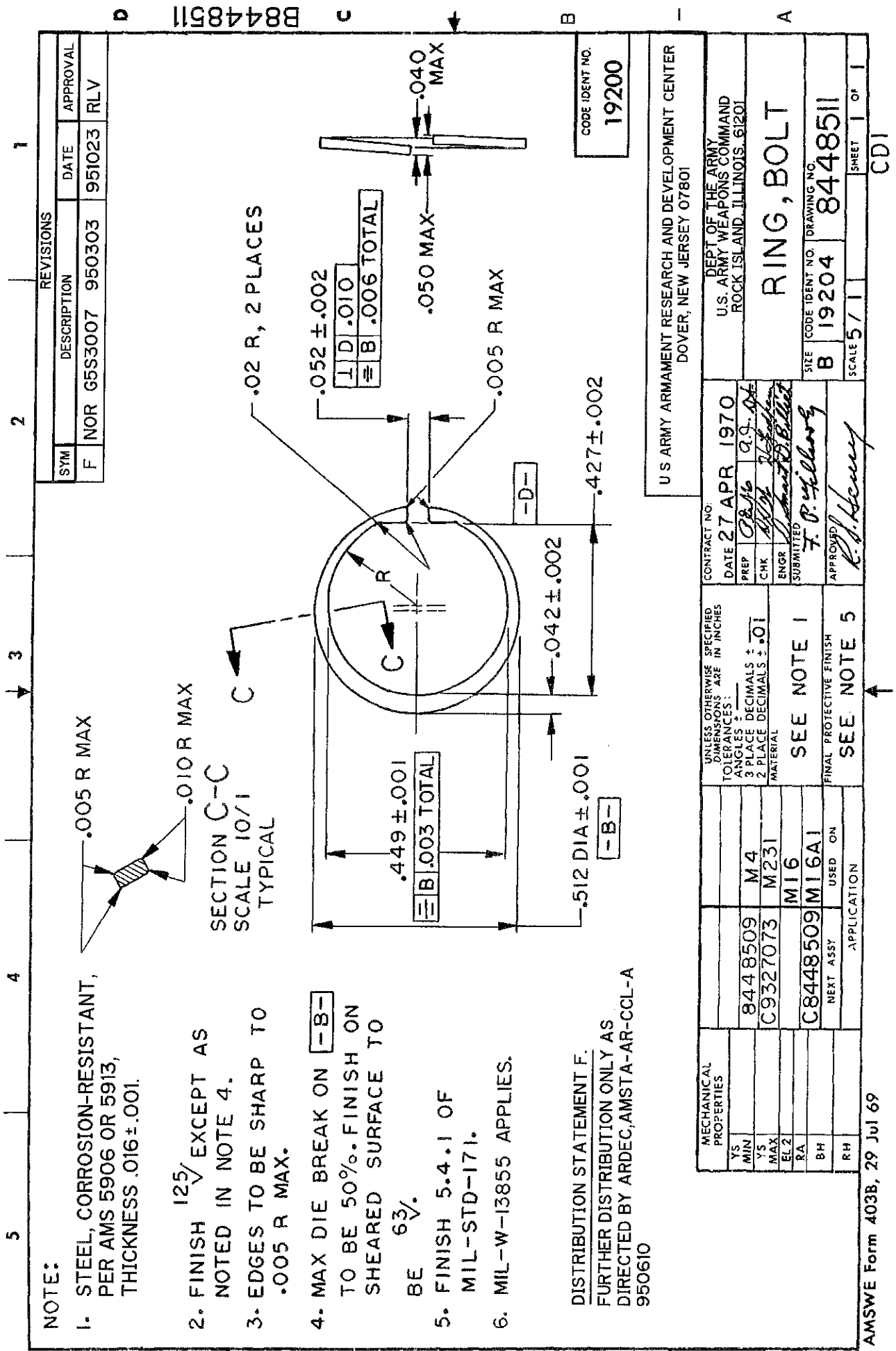
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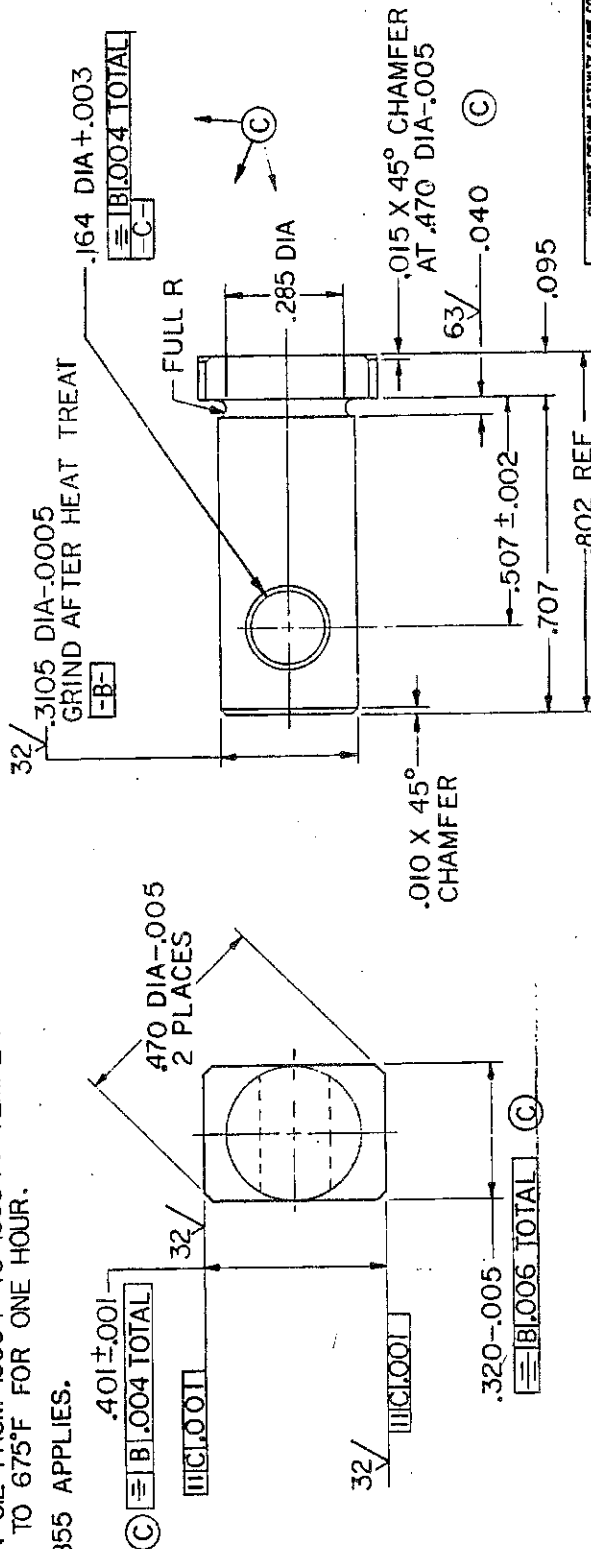
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1. FINISH 125 / EXCEPT AS NOTED.

2. BREAK ALL SHARP EDGES .005+ .005.
3. APPLY DRY FILM LUBRICANT MIL-L-46010. (C) FILM THICKNESS .0002-.0004. CURE ONE HOUR AT 375°F. OR USE EVERLUBE 626 OR 626S. FILM THICKNESS .0002-.0004. CURE FOR 1 HOUR AT 375°F.
4. SUGGESTED HEAT TREATMENT:
QUENCH IN OIL FROM 1500°F TO 1550°F. TEMPER AT 625°F TO 675°F FOR ONE HOUR.
5. MIL-W-3855 APPLIES.



CURRENT DESIGN ACTIVITY CASE CODE 16200
U.S. ARMY
ARMAMENT RESEARCH DEVELOPMENT AND ENGINEERING CENTER

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particularity. The author, being in a room and looking out at a beautiful landscape, has a certain feeling. The author, being in a room and looking out at a beautiful landscape, has a certain feeling. The author, being in a room and looking out at a beautiful landscape, has a certain feeling.

1. FOR FINISHED CHAMBER DIMENSIONS AFTER PLATING SEE DWG 82498649 AND SECTION A-A. FOR FINISHED BORE DIMENSIONS AFTER PLATING SEE DWG 8448549.
2. TORQUE BARREL AND BARREL EXTENSION TO 150 LB FT $\pm$ 5 LB FT. .283 DIMENSION APPLIES AFTER TORQUING TO REQUIRED LOAD.

- ### 3. FINISH REAM-CHAMBER AFTER ASSEMBLY.

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C. EXTERIOR 5.31.2 OF MIL-STD-71.
100X MAGNIFICATION.

2. AFTER CHROME PLATING CHAMBER AND BORE EACH BARREL ASSEMBLY SHALL WITHSTAND THE FIRING OF ONE HIGH PRESSURE TEST CARTRIDGE M197, WITHOUT EVIDENCE OF FAILURE.

4. AFTER PROOF FIRING, EACH BARREL ASSEMBLY SHALL BE MAGNETIC PARTICLE INSPECTED FOR CRACKS, SEAMS AND OTHER INJURIOUS DEFECTS USING A CURRENT OF 400 TO 500 AMPERES FOR CIRCULAR CONTINUOUS MAGNETIZATION.

• AFTER PROOF FIRING AND MAGNETIC PARTICLE INSPECTION, GRIT BLAST EXTERIOR PRIOR TO FINAL PROTECTIVE FINISH, TO PRODUCE NONREFLECTIVE MATTE FINISH. MASK CHAMBER, FEED CONE, BORE AND CROWN (MUZZLE END).

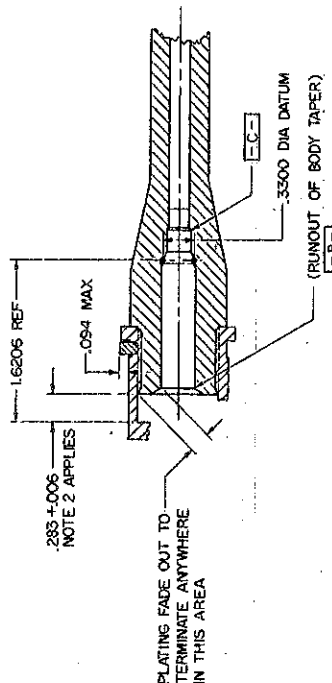
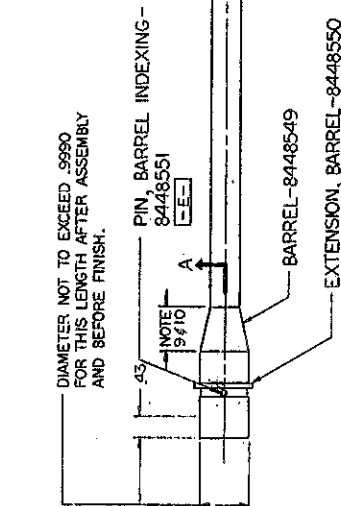
4. AFTER PROOF LOAD FIRING AND MAGNETIC PARTICLE INSPECTION EACH BARREL SHALL BE MARKED AS FOLLOWS:

MFG IDENT, MAGNETIC PARTICLE INSPECTION / PROOF, LOAD FIRING SYMBOL, AND "CHROME BORE" SHALL BE .094±.015 HIGH IN AREA SHOWN VISUALLY IN LINE WITH THE .092 DIA GAS PORT.

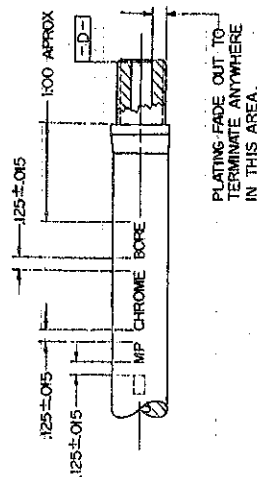
1. ABOVE MARKINGS SHALL BE LEGIBLE AND PERMANENT SO AS TO BE CAPABLE OF WITHSTANDING THE ENVIRONMENTAL AND CLEANING REQUIREMENTS FOR THE ASSEMBLY.

SINGLE LETTER-CHROME PLATE VENDOR IDENT.
PERMISSIBLE THIS AREA ONLY.

100



SECTION A-A
SCALE: 2/1



VIEW: B
SCALE: 2X

REVISED		REVISIONS		DATE		APPROVED	
NO.	DESCRIPTION	DATE	BY	DATE	BY	DATE	BY
1	REPLACES REV. 10 BY CHANGE			10/10/14	22		
2	SEE REV 100 30-50			3/28/15	21		
3	SEE REV 100 30-50			3/28/15	21		
4	SEE REV 100 30-50			3/28/15	21		
5	NO. 67530305870511			8/9/01	2		
6	REPLACES REV. 100 30-50			8/9/01	2		
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